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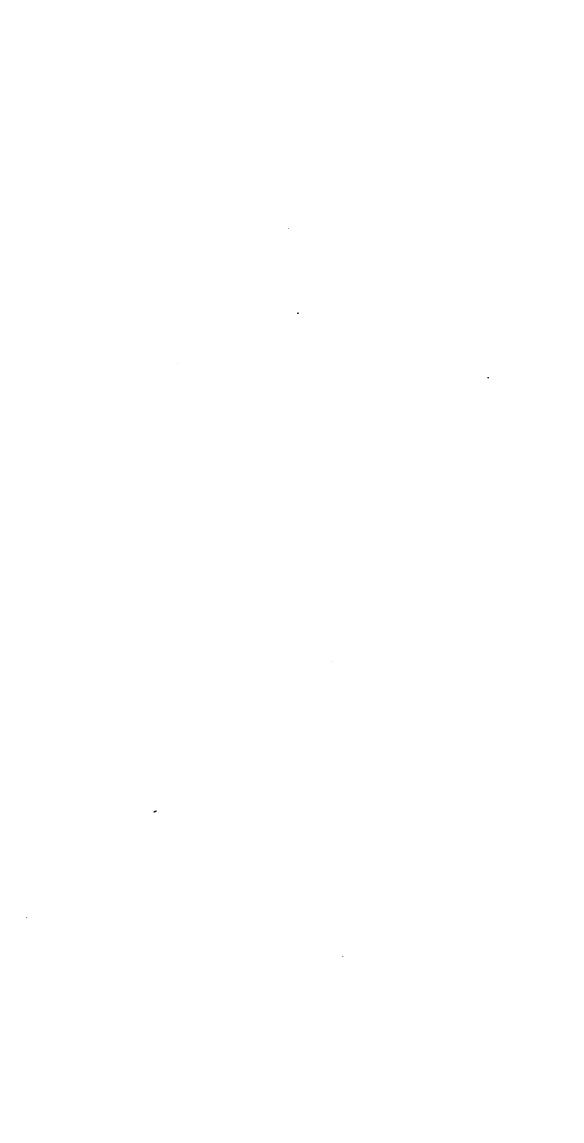
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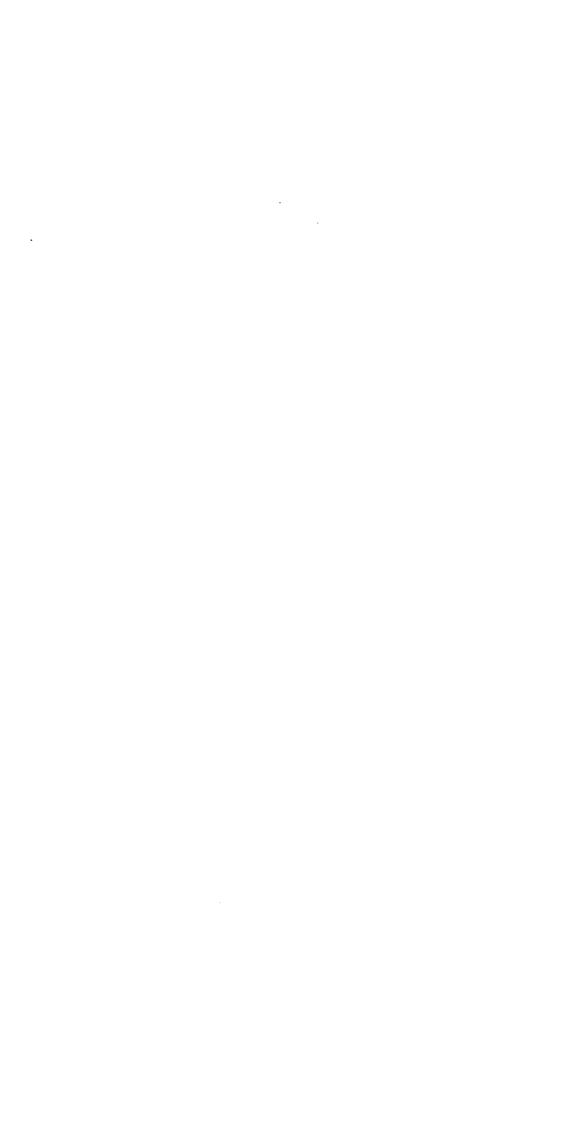














### ELEVENTH ANNUAL REPORT

RELATING TO THE REGISTRY AND RETURN OF

# BIRTHS, MARRIAGES, AND DEATHS,

IN

MICHIGAN FOR THE YEAR 1877.

BY THE

# SECRETARY OF STATE

OF THE

STATE OF MICHIGAN.



BY AUTHORITY.

LANSING, MICH.: W. S. GEORGE & CO., STATE PRINTERS AND BINDERS. 1884.



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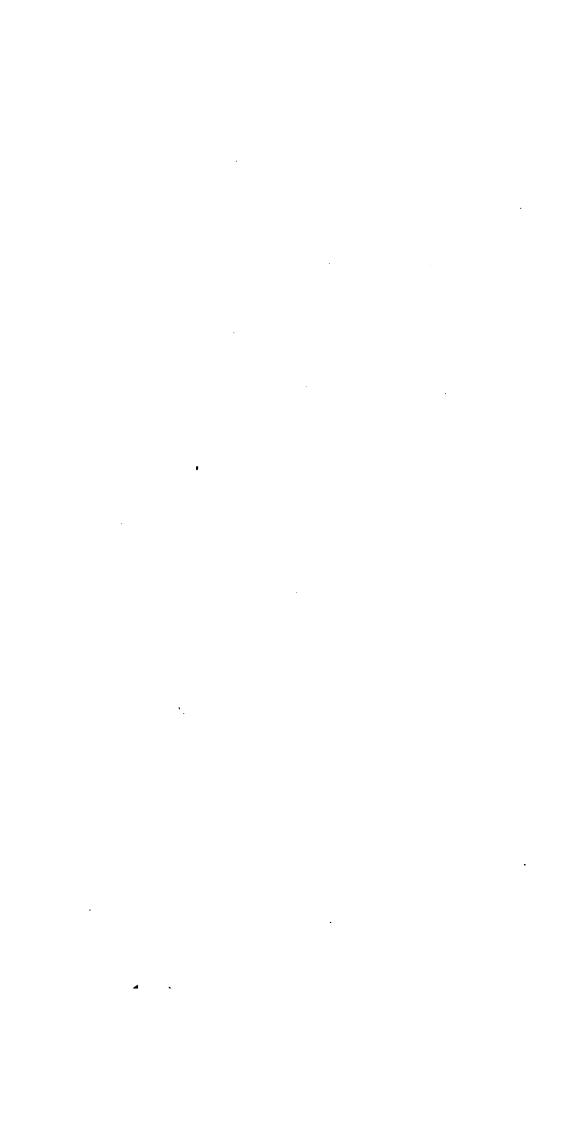
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# MICHIGAN DEPARTMENT OF STATE, OFFICE OF THE SECRETARY, Lansing, 1884.

HON. JOSIAH W. BEGOLE, Governor of Michigan.

SIR,—I have the honor, in conformity with the requirements of the laws of this State, to submit herewith the Eleventh Annual Report relating to the registration and return of Births, Marriages, and Deaths, in Michigan, for the year 1877.

The Legislature of 1883 gave to the Department of State the entire supervision of the compilation and publication of the Registration Reports for the State of Michigan. For reasons which need not be stated here the publication of these Reports has been delayed for several years. A great part of the compilation and much of the editorial work of some of these Reports was already accomplished before the commencement of my term of office. This especially applies to the Report for 1877. The credit, therefore, of its construction may justly be given to my predecessor in office. So far as relates to the Reports, the completion of which has been so long delayed, their publication will now be consummated as rapidly as they can be issued from the press.

An examination of Exhibit A, on page ix., shows that 11,009 marriages, 33,395 births, and 12,919 deaths were returned for the year 1877. The same Exhibit also shows an excess of 20,476 births over deaths during that year. According to the returns, therefore, this number represents the natural increase in population for the year. This is the greatest natural increase for six years in Michigan with the exception of the year 1876.

As in preceding Reports, a large portion of the present volume is devoted to the consideration of that most important subject, the relation of mortality to the inhabitants of Michigan, including the various and most prominent causes of deaths as shown by the returns. It is but the repetition of a statement that has become axiomatic to say, that intelligent action upon the part of a state or community, in order to lessen mortality, involves a careful study of its causes, and their removal. Diseases of the lungs are, perhaps, the greatest and most widely distributed of all modern causes of mortality; yet, notwithstanding a considerable increase in population in this State, the number of deaths in Michigan in 1877, from diseases of the lungs, was less than it had been for a number of years.

The facts presented in the Registration Reports, carefully classified and arranged, are designed to facilitate the study of most serious problems connected with the social and material growth of our great commonwealth. It is to be hoped that all, directly or indirectly associated with the collection of statistics bearing upon this subject, will see the importance of the work and will aid in securing full and accurate returns. No labor in the accumulation of such information can be too carefully performed, and no law designed to regulate the methods for obtaining it can be too carefully constructed.

Respectfully submitted,

Secretary of State.

## BIRTHS, MARRIAGES, AND DEATHS,

### IN MICHIGAN,

DURING THE YEAR 1877.

Exhibit A shows the number of births, marriages, and deaths, and the excess of births over deaths for each of the years 1872-77, as returned, and the births and deaths as corrected for omissions in the enumeration. The excess of births over deaths as returned was greatest in 1876, and least in 1872; after correction for omissions in enumeration the excess of births over deaths was greatest in 1874, and least in 1872.

EXHIBIT A.—Births, Marriages, and Deaths Returned as having Occurred in Michigan during the Years 1872 to 1877, inclusive, including unknown month.

		1872.	1873.	1874.	1875.	1876.	1877.
F	Marriages	10,752	11,873	12,211	11,703	11,610	11,009
Returned.	Births	27,993	34,608	31,151	31,958	34,235	33,395
8	Deaths	13,371	14,258	12,500	11,990	12,576	12,919
₹	Excess of Births over Deaths	14,622	20,350	18,651	19,968	21,659	20,476
7 0 g	Births	43,081	45,088	55,841	46,553	45,172	50,203
As Corrected for Omissions.	Deaths	21,101	20,312	20,090	17,289	18,389	18,841
A 5 0	Excess of Births over Deaths	21,980	24,776	35,751	29,264	26,783	31,862

<sup>•</sup> Corrected, for additional returns, up to February 1, 1879.

EXHIBIT B.—Statements concerning Births, Marriages, and Deaths in Michigan during the Years 1872 to 1877, inclusive.

	1872.	1873.4	1874.0	1875.5	1876.5	1877.6
	1072	10/3.4	1079	1015.5	10,0.0	1077.0
Inhabitants represented by returns of marriages						
to one marriage	110.15	99.75	96.98	113.83	114.80	121.0
one marriage	57,50	52.07	50.63	59.49	59.99	63.94
In population represented by marriages, females to one marriage	52.64	47.67	46.35	54.34	54.81	57.77
owered to one marriage	35.13	31.79	30.89	4	4	a
Female inhabitants at ages at which marriages occurred to one marriage.	34.29	32.30	30.32	d	a	
Inhabitants represented by births to each child born	41.77	34.07	87.89	41.52	38.56	39.8
Inhabitants, males to each male child born	42,19	34,35	87.84	41.98	38.86	40.38
Inhabitants, females to each female child born	41.56	83.90	38.08	41.24	38.38	39.49
Inhabitants, females aged 16 to 45 to each child born	8.98	7.32	8.16	d	4	d 4
· •				_	_	1
Children born to 100 females aged 16 to 45	11.13	13.66	12.25	4	4	ď
Inhabitants represented by deaths to one death	86.61	82.46	93.77	110.25	104.74	102,2
Inhabitants, males to one death of male	84.09	80, 16	91.76	107.09	101.84	101.0
Inhabitants, females to one death of female	89.93	85.34	96.59	115.14	109.21	104.51
Deaths, males to 100 females	116,55	116.10	114.83	117.58	117.97	118.03
Births, males to 100 females	107.46	107.67	109.88	107.43	108.05	106.94
Tetal population of State, males to 100 females	109.22	109.22	169.22	109,47	109.47	109.47
Births to one death	2.09	2.43	2,49	2.67	2.72	2,50
Births, males te one death of male	2.01	2,34	2.44	2.56	2.63	2.59
Births, females to one death of female	2.18	2,52	2.55	2.80	2.85	2.67
Children born of which the sex was unknown or not stated	83.00	68.00	49.00	82,00	56.00	59.00
Desedents of which the sex was unknown or not stated	27.00	17.00	31.00	58.00	59.00	59.00
Natural daily increase of population, as per births and deaths returned	39.95	55.76	51.10	54.71	59.84	56.10
Natural dally increase of population, when returns	60.06		97.95			
are corrected for omissions in enumeration	00.06	67,88	81.80	80,17	73.38	87.2

<sup>In computing statements for this column, the inhabitants, June 1, 1870, were used.
In computing statements for this column, the inhabitants in 1874 were used.
Marriages, corrected up to February 1, 1879.
Population for 1874, by ages, cannot be ascertained.</sup> 

TABLE I.—The number of Marriages, Births, and Deaths, and Excess of Births over Deaths in the State of Michigan during the Year 1877, and the Average Number and Excess during Specified Periods of Time within the Year, as Returned, and the same for Births and Deaths as Corrected for Omissions in the Enumeration.

	PERIODS OF TIME,—1877	Marriages, 1877.	Births, 1877.	Deaths, 1877.	Excess of Births over Deaths.
	Year, 18774	11,009.00	33,395.00	12,919.00	20,476.00
ped.	Quarter	2,752.25	8,348.75	3,229.75	5,119.00
Returned.	Month	917.42	2,782.92	1,076.58	1,708.34
A: R	Week	211.71	642.21	248.44	393.77
⋖	Day	30.16	91.49	35.39	56.10
å.	( Year, 1877*		50,203.00	18,341.00	31,862.00
rode Lode	Quarter		12,550.75	4,585.25	7,965.50
Births and Death	Month	•••••	4,183.58	1,528,42	2,655.16
į	Week		965.44	352.71	612,73
Ħ 3	Day		137.54	50.25	87.29

Unknown month included.
 Observed as if enumerated in months of occurrence. For reasons for, and methods of correction, see pages 5-9, for births, and pages 105, 109 for deaths.

Table I. shows the number of marriages, births, deaths, and excess of births over deaths, for the year 1877, and for certain periods of time within the year. In 1877 there were 20,476 more births than deaths, 22,386 more births than marriages, and 1,910 more deaths than marriages. The average natural daily increase of population—increase of births over deaths—in 1877, according to this table, was 56.10, using the births and deaths as returned as the basis of calculation; but if the births and deaths as corrected for omissions in the enumeration are used the natural daily increase of population was 87.29. Every day, on an average, 61.33 more births than marriages occurred in this State in 1877, as shown by Table I.

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3	144.1	1, 1:1	41 141	4.4.1	i mir	14 L 'c	1.5	1,618	d'nte	1,040	4,739	M,0380	1,111	1,004	a,ota	1,221	1.704

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Monthly average of excess for 1872 to 1877, inclusive. Monthly avorage of excess for 1868 to 1477, inclusive.

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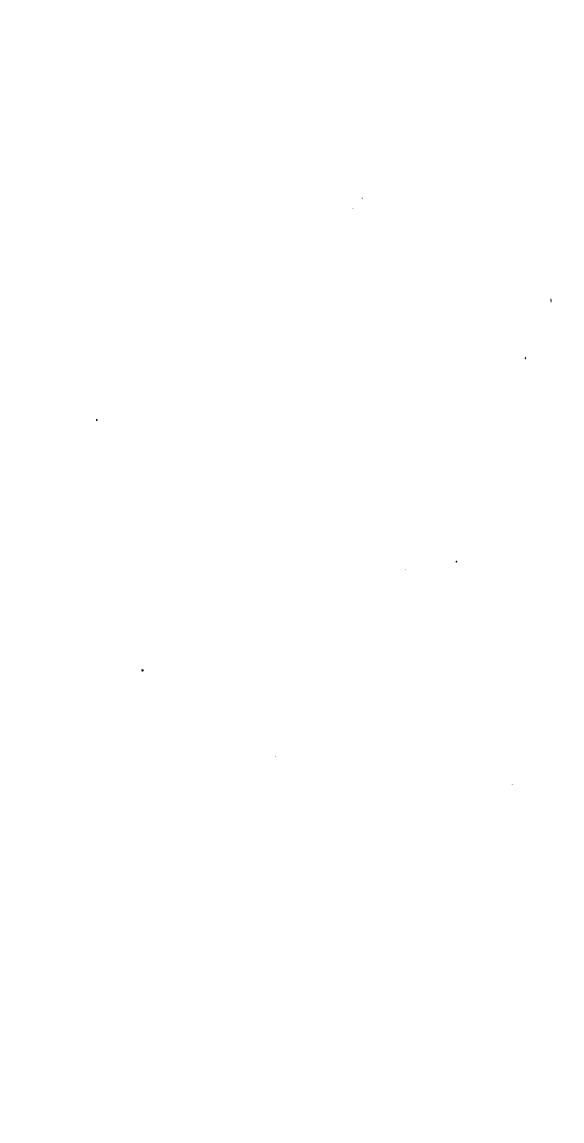


Exhibit 2 is made for the purpose of showing the relation between the marriages and conceptions, and between the deaths and conceptions. two lines of figures show the number of births in 1877 by months; the third line shows the number of marriages in the months of conception of the births in 1877 (nine calendar months previous to months of birth); and the fourth and fifth lines show the number of deaths in the months of the conception of the births in 1877. Each plus and minus sign indicates, respectively, that the number immediately under it is greater or less, as the case may be, than the monthly average for that line, as shown in the last column. In studying this subject, the following two propositions are made, viz.:

- (1.) More than the average number of conceptions occurred in months when more than the average number of marriages were solemnized, and vice versa.
- Less than the average number of conceptions occurred in months when (2.) more than the average number of deaths occurred, and vice versa.

To each of the above propositions there are five exceptions shown in Exhibit 2.

EXHIBIT 2.—Births Returned as having occurred in Michigan by Months during the Year 1877, and Marriages and Deaths during the Months of Conception of the Births,—all Month's Equalized to Uniform length of 30. 44 days.

		Можтив,—1877.												
	Total.a	Jan.	Feb.	Mar.	Apr.	May.	June,	July.	Aug.	Sept.	Oct.	Nov.	Dee.	Av.
Births, 1877, equal ( ized to months of { uniform length	33,326	_ 2,173	2,442	- 2,641	2,694	2,634	2,696	+ 2,847	+ 3,169	+ 3,093	+ 2,960	+ 2,889	+	2,77
Births, 1877, correct- ed for omissions in enumerating, and { equalised to months   of uniform length.	50,177	3,893	+ 4,267	+ 4,474	+ 4,429	+ 4,201	- 4,165	+ 4,257	+ 4,582	+ 4,319	3,988	- 3,748	- 3,854	4,18
				X	lont	п в ,-	1876							
		Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	
Marriages, equal-( ized to months of uniform length	11,579	960	- 831	790	+	- 764	+	+	+	+	924	903	- 845	96
Deaths, equalized ( to months of uni- form length	12,685	992	953	868	+ 1,060	1,480	+	+ 1,111	1,004	+ 1,132	- 753	916	973	1,057
Deaths, corrected for omissions in enumerating, and equalized to months	18,443	+	1,481	_	+	+ 2,095	+	_	1,282	1,394	-	- 1,494	+	1,537

Excluding unknown month.
 Corrected for additional returns up to Feb. 1, 1879.

<b>xv</b> i	
ice of the Vital Statistics on the subject of the Comparative Natural Increuse of Native f Michigan, by Excess of Births over Deaths, the Evidence Exhibited Covering the	1877.
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Vital S an, by	=
ice of the f Michig	1873.

1		1873.			1874.			1875.			1876.			1877.	
BITRHS,  R X CESS  R X CESS  OF BIRTHS.  Total.  Both Parents of Chill dren Native. Death of Native. Dorn.	Both Parents of Chil- dren Foreign. Deaths of Foreign-born, Total.	Both Parents of Chil- dren Kative. Deaths of Native-born.	Both Perents of Chil- dren Foreign. Deaths of Foreign-botn.	JatoT	Both Parents of Chil- dren Mative-born, of Mative-born,	Both Perents of Chil- dren Foreign. Deaths of Foreign-born.	Total.	Both Parents of Chil- dren Native-born, of Native-born,	Both Parents of Chit- dren Foreign. Deaths of Foreign-born.	.latoT	Both Parents of Chil- dren Native, Deaths of Native born.	Both Parents of Chili- dren Foreign. Deaths of Foreign-born.	.IntoT	Both Parents of Chil- dren Kative. Deaths of Kative-born.	Both Parents of Chil- dren Foreign. Deaths of Foreign-born.
Births by parent a 27,993 12,907	9,721 × 34,608	308 16,202	11,946	11,946 * 31,151	13,341	10,517	a 31,958	14,236	11,120	4 34,235	15,551	11,901	* 33,395	15,270	11,567
1tyby nativ-	2,146		- 70				ь 11,990	9,573	4 2,106	b 12,576	e 10,147	4 2,078	۵		42,251
Excess of births		20,360 4,602	9,612	18,651	3,404	8,389	19,968	4,653	9,014	21,650	2,494	9,823	20,476	386,	9,306

EXHIBIT E.—Showing, for the State and Counties of Michigan, the Number of Births and Deaths returned to this Department as having occurred out of Michigan during the year 1877.

AMAMM AND COLUMNIES	18	77.	COUNTIES.	18	77.
STATE AND COUNTIES.	Births.	Deaths.	COUNTIES.	Births,	Deaths
STATE	320	72	Kent	16	;
Allegan	2	1	Lake	1	
Barry	7		Lapeer	4	1
Bay	43	4	Leelanaw	2	. <b></b>
Berrien	4	3	Lenawee	14	4
Branch	9	1	Livingston	1	1
Calhoun	10	2	Macomb	2	
Cass	3	2	Manistee	2	
Charlevoix	2		Mason	G	
Chippewa	1		Mecostu	3	
Clare	1		Midland	4	
Clinton	5	1	Monroe	1	,
Delta	1		Montcalm	2	
Eaton	11		Newaygo	1	
Emmet	1		Oakiand	2	
Genesee	4	1 1	Oceana	2	
Grand Traverse	2	1	Osceola	7	
Gratiot	6	3	Ottawa	2	
Hillsdale	9	5	Saginaw	9	,
Houghton	5		Sanilac	13	
Huron	8		Shiawassee	10	
Ingham	8		St. Clair	9	4
Ionia	6		St. Joseph	5	1
Isabella	3	1	Tuscola	5	
Jackson	11		Van Buren	6	;
Kalamazeo	2	8	Washtenaw	2	,
Kalkaska	1	<u></u>	Wayne	29	1:

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iiivx TABLE II.—Exhibiting, by Sex, the Population in 1874, the Number of Marriages, Births, and Deaths, and the Excess of Births over Deaths, in Michigan during the Year 1877. Un-known. EXCRSS OF BIRTHS OVER DEATHS. Fe-males. 10,069 € 333 8 8 8 131 Males. 10,400 ğ S 窒 151 131 133 88 Total. 90,476 8 엻 8 8 351 83 8 33 23 Un-known. 25 Fe. males, DEATHS, 1877. 6,040 BEX. 乭 3 뎚 3 R Males. 81 2 2 2 떮 88 178 8 6,827 8 ĸ Totel. 12,919 216 33 Ä 8 器 98 Un-known. 8 Fe-males. 16,100 BIRTHS, 1877. SEX. 3 57 뙲 7 8 Males. 17,22,71 8 8 2 8 Total. 33,305 23 3 8 8 7 幺 8 Š 엻 8 Marriages, 11,009 1877. 2 81 33 88 175 9 Females 636,847 10,463 17,087 12,685 17,499 9,933 POPULATION, 1874. SEX. Males. 481,184 10,592 13,657 17,942 13,041 18,156 18, 20,525 24,832 2,663 35,020 25,736 35,655 1,334,031 22,061 Total.

Antrim.....b

Allegan. .....

Alpena ....

Alcona .....

STATE

COUNTIES.

STATE AND Bay .....

Barry .....

Baraga.

.....

Branch....

Calhoun.

Berrien ....

Benzie.

### BIRTHS, MARRIAGES, AND DEATHS.

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23	8	-	7	881	95	28	8	33	214	\$	<b>3</b>		818	83	81	281	115	11	riendeld.
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×	922	•	7	38	2	281	91	783	র	8	3		200	3	91	517	a	<b>S</b> E	em indica I Iako. h Hought In. n. s of Deto t and Hay tor, Frion of Grout
809	17,088	95	8,548	6,563	15,586	8,017	5,350	13,960	13,588	1,860	2,786		18,135	15,701	2967	30,085	2,178	<b>8</b> 2	before the pof Torch pof Torch pof Torch pof Torch pof Benk pof Benk ps of Fros ps of Fros ps of Deerflowship.
38	17,586	31	2,801	1,804	15,971	11,013	6,614	15,304	14,788	3,706	3,273	*	19,853	16,583	88	32,576	3,233	1,015	inus sign placed before them indicate the excess of deaths over births, om the township of Torch lake, from the township of Torch lake, from the township of Torch lake, from the township of Lincoin.  The township of Lincoin.  The township of Benton.  The township of Prost and Hayes, and no returns of births or death from the townships of Frost and Hayes, and no returns of births or death from the township of Center, Friendship, and Fleasant View, and no in the township of Deerfield.  The township of Deerfield.
1,979	84,568	200	5,340	13,886	31,566	19,090	11,964	29, 193	28,376	4,575	6,050	4	37,968	188,28	1,259	62,671	5,411	1,813	he minus si tha from the Baraga con the from the his or death tha from the tha from the he or death tha from the tha from the tha from the
Emmot	Genesee	Gladwin	Grand Traverse	Gratiot	Billedale	Houghton	Haron	Ingham	Ionia	Ioeco	Isabella	Isle Royalk	Jackson	Kalamazoo	Kalkaska	Kent	Комоепам	Lake	<ul> <li>The figures with the minus sign placed before them indicate the excess of deaths over births.</li> <li>No returns of deaths from the township of Torch lake.</li> <li>The poblishion of Barga county is compiled with Houghton county, and cannot be ascertained.</li> <li>No returns of deaths from the township of Lincoin.</li> <li>No returns of deaths from the township of Benton.</li> <li>No returns of deaths from the township of Detour and Sugar Island.</li> <li>No returns of deaths from the township of Prost and Hayes, and no returns of births or deaths from the townships of Conter, Friendship, and Pleasant View, and no returns of deaths from the townships of Conter, Friendship, and Pleasant View, and no returns of deaths from the township of Deerfield.</li> <li>No returns of deaths from the township of Deerfield.</li> <li>No returns of deaths from the township of Deerfield.</li> <li>No returns of marriages, births, or deaths.</li> </ul>

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1,270   1,270   1,130   12   74   17   17   17   17   17   17   17	\$	191	•	•	902	ន	ø	883	2	<b>2</b> 0	376	513	ž	238	274	338	2,563	97	xcess on the control of the control	
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1,370   3,400   1,370   1,370   1,370   1,370   1,015   1,01	1,130	, ,	3 1	2	14,140	夏	88	22,441	7,640	89	10,508	19,507	12,630	8,048	14,004	19,170	72,397	1,250	before the township of South pa of South pa of Briego po of Monte pa of Don the township township township pa of Briego township t	
1,400   1,40	1,276	107		<u>s</u>	15,780	801	187	896'93	8,652	<b>3</b>	11,265	21,181	13,967	8,950	15,062	19,563	72,306	1,782	us sign placed before them indicate the excess of deaths over births.  [astle from the township of Holmes.  In the township of South Maniton, and no returns of births or deaths from the township of Belvichor, Reynolds, and no returns of births or deaths from the township of Montague.  In the township of Montague.  In the township of Montague.  In the township of Presque 1sie.  In the township of Presque 1sie.  In the township of Presque 1sie.  Eaths from the townships of Munising and Unota.  Eaths from the townships of Munising and Unota.  Eaths from the townships of Munising and Unota.  Eaths from the township of Harring, and the 1st, 2d, and 3d wards of the city of Callillac.	
la	3,406	A 91A		8	30,930	1,615	278	48,400	16,292	1,290	21,773	989'07	908,82	16,996	29,156	38,728	144,903	3,011	ne minus  sor destina  sor destina  sor destina  ha from th  ha from th  ha from th  ha from th  sor destina	
Ontor Oneog Ottaw Ottaw Presq Bagina Salia Salia Salia Salia Schoo Shaw St. Jo Tueco Van E Waabl Wash Noo Noo Noo Noo Noo Noo Noo Noo Noo No	Ontonagon	Oscools		Ottogo	Ottawa	Presque Isle	. Roscommonk	Saginaw	Sanilac	Schoolersft	Shiawassoe	St. Olair	St. Joseph	Tuscola	Van Buren	Washtenaw	Wayne		A The figures with the Noreturns of death of Noreturns of death of Noreturns of death of Noreturns of death Noreturns of death Noreturns of Dirth	



### BIRTHS, 1877.

The compilation of births for 1877, made in the State Department, shows that 33,395 births were returned as having occurred in Michigan during the calendar year 1877. This is 840 less than the number returned for 1876. If the correction for omissions in the enumeration is made, as shown in Exhibit A, page 5, the number of births which probably occurred in this State in 1877 will appear to be 50,203, including those in unknown month.

The following tabular exhibit shows what per cent. of the actual births were probably returned, and the per cent. which has been added as a correction for the omissions which occurred on account of the time elapsing between the occurrence and the enumeration of the births.

YEARS.	Per Cent. of Births Returned.	Per Cent. of Births Added as Correction for Omissions.
1871	70.00	42.96
1872	64.95	43.95
1873	76,72	30.84
1874	55.75	79.87
1875	68.61	45.76
1876	75.78	82.04
1877	66.47	50.44
Average for 7 years	68,32	46.89

The average number of births for certain specified periods of time, as returned and as corrected, including births in unknown month, is as follows:

PERIODS OF TIME.	Births as Returned.	Births as Corrected.
Per quarter	8,348.75	12,550.75
Per month	2,782.92	4,188.58
Per week	642.21	965.44
Per day	91.49	187.54

Table I. shows the number and per cent. of births by quarters of the year, for each of the years 1872-77.

TABLE I.—Births by Quarters of the year, Exhibiting the Number and Per Cent. of Total for the Years 1872 to 1877, inclusive, as Returned, and as Corrected for Omissions in the Enumeration.

	TALS, AND MONTHS	187	2.	187	3.	197	4.	187	5.	187	6.	197	7.
WI	TH WHICH UARTERS END.	Num- ber.	Per. Ct. of Total.	Num- ber.	Per Ct. of Total.								
	Totals	27,993	100.00	34,608	100.00	81, 151	100.00	31,958	100.00	34,235	100.00	83,395	100.00
	March	5,868	20.96	7,208	20.83	6,815	20.27	6,625	20.73	. 7,879	21.55	7,148	21.40
As Returned.	June	6,784	24.23	8,104	23,42	7,608	24.42	7,962	24.91	8,339	24.36	7,995	28.94
eta i	Sept	7,948	28.37	9,693	28,01	8,810	28,28	8,909	27.88	9,248	27.01	9,174	27.47
Ä	Dec	7,870	26,83	9,583	27.54	8,373	26.88	8,402	26.29	9,165	26.77	9,007	26.97
4	Unknown	28	.10	70	.20	- 45	.14	60	.19	104	.30	71	.21
	L Average.s	6,998	25.00	8,652	25.00	7,788	25.00	7,990	25.00	8,550	25.00	8,849	25.00
ons.	Totals	43,081	100.00	45,088	100.00	55,841	100.00	46,553	100.00	45,172	100,00	50,903	100.00
Omissions.	March	10,517	24.41	10,314	22,88	18,707	24.55	11,074	23.79	10,840	24.00	12,446	24.79
	June	11,105	25,78	10,920	24 22	14,768	26.45	12,261	26.34	11,480	25,41	12,748	25.89
i for	Sept	11,722	27.21	12,201	27.06	15,019	26.90	12,494	26.84	11,858	26,25	13,258	26.41
cte	Dec	9,709	22,54	11,583	25.69	12,302	22.03	10,664	22,91	10,890	24.11	11,690	23,27
Corrected	Unknown	28	,06	70	.16	45	.08	60	.18	104	.23	71	.14
As C	Average.a	10,770	25.00	11,272	25.00	13,960	25.00	11,638	25.00	11,293	25.00	12,551	25.00

<sup>•</sup> The number in unknown quarter of year included.

Table II. shows the number of births in each month for each of the years 1872-77, the months being arranged in order, those first which have the greatest number of births. August is first in order, and January last.

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B				-		•0	62		•	9		9	19	99	:	<b>3</b> .	22
an		Per Ct. of Total.	100.00	9.68	8.43	9, 13	9.68	88	8.63	8.08	8.08	7.88	7.8	6.13	6.62	-	 8.8
umber st.	1877.	Num- ber,	33,395	8,227	3,145	8,048	8,015	2,899	2,847	2,690	2,683	2,657	2,655	2,246	2,213	<u> </u>	2,783
the Nurser first.		Months.	Total	Aug	Dec	Sept	0et	July	Nov	Mar	May	June	April	Feb	Jan.	Unk.	Αν
biting Numl		Per Ct. of Total.	100.00	9.8	9.13	9.08	88.8	88	88	88.	8.01	80	7.97	6.87	6.67	ક્ર	8.33
s, exhi reatest	1876.	Num- ber.	34,236	3,205	3,124	8,110	8,039	3,014	2,921	9,870	2,744	2,789	2,730	2,352	2,288	ğ	2,868
Return 7 the gi		Months.	Total	Dec	Αug	Sept	Oct	July	Nov.	Мау	Mar	June	April	Feb	Jan	Unk	AV
o the l having		Per Ct. of Total.	100.00	17.6	20.0	8.94	86	8.53	8.68	8.52	8,48	1.91	7.56	79.9	6.53 Jan.	91.	8.8
ding the	1876.	Num- ber.	81,968	8,108	8,081	2,856	2,819	2,727	2,725	2,723	2,710	2,530	2,415	2,121	2,089	ફ્ર	2,863
, accor		Months.	Total.	Aug	Sept	Dec	Oct	Nov.	July	May	April	June	Mar	Feb	Jan.	Unk.	Αν
clusive y Nun		Per Ct. of Total.	100.00	9.83	20.00	88.6	86	8.75 Nov.	8.75	8.30	8.21	16.7	1.90	6.27	6.10	71.	8.8
77, in rder b	1874.	Num- ber.	81,151	8,077	2,978	126,2	2,761	2,726	2,726	2,586	2,558	2,464	2,462	1,864	1,899	\$	2,596
to 18 sd in C	-	Months.	Total	Δug	Sept	Dec	July	Oct	8.48 Nov	May	June	April.	Mar	6.50 Feb	6.10 Jan	Na Unk	Αν
878 ang		یہ بو		9.93	89.68			8.72	<u></u>	8.23	8.07	38.1	7.61	3.50	3.10	8	88
12		Per Ct. of Total	100.00	ã	ž	9.66	9.16	8.7	8	80	æ		-	_	_		
Years I	1878.	Num. of of Der. Cota	34,608 100.0	8,436	3,351 9.(	8,842 9.6	8,166 9.1	8,017 8.7	8,915	2,847 8.9	8 201.8 B	2,711 7.	2,089	2,249	3,111	2	2,884
ng the Years Is by Months, arr	1878.		84,608	<u> </u>	8,861		8,166	8,017			267.2		2,080		3,111	:	Αν
Is during the Years I	1878.	Num- ber.	!	8,436		3,842			3,916	2,847		2,711		2,249		.10 Unk 70	<del>-</del>
-Births during the Years 1. nt. of Total, by Months, arr	1872. 1878.	Months. Num-	Total 34,608	Sept 5,436	Dec 3,351	Aug 8,342	Oct 8,166	Nov 8,017	July 9,915	Mar 2,847	May 2,794	April 2,711	June 2,089	Feb 2,249	3,111	:	Αν
E II.—Births during the Years 1872 to 1877, inclusive, according to the Returns, exhibiting the Cent. of Total, by Months, arranged in Order by Number, Months having the greatest Number	9.	Per Ct. Months. Num- of Months. ber.	27,993 100.00 Total 34,608	2,817 10.06 Sept 3,436	2,713 9.69 Dec 3,351	2,585 9.23 Aug 8,342	2,428 8.67 Oct 8,165	2,418 8.62 Nov 8,017	2,367 8.42 July 2,915	2,281 8.15 Mar 2,847	2,253 8.06 May 2,794	2,250 8.04 April 2,711	2,195 7.84 June 2,599	1,800 6.78 Feb 2,949	1,774 6.34 Jan 9,111	28 .10 Unk	2,338 8.33 AV
TABLE II.—Births during the Years 1872 to 1877, inclusive, according to the Returns, exhibiting the Number and Pe Cent. of Total, by Months, arranged in Order by Number, Months having the greatest Number first.	9.	Months. Num. Per Ct. Months. Num. Of Total.	100.00 Total 84,608	10.06 Sept 3,436	18 9.69 Dec 3,351	9.23 Aug 8,842	8.67 Oct 8,165	18 8.62 Nov 8,017	8.42 July 2,915	8.15 Mar 2,847	8.06 May 2,794	8.04 April 2,711	7.84 June. 2,099	6.78 Feb 2,249	6.34 Jan 9,111	.10 Unk	8.33 Av

· Including unknown month.

EXHIBIT 2.—Births during the Years 1874, 1875, 1876, and 1877, as Corrected for Omissions in the Enumeration, exhibiting the Number and Per Cent. of Iotal, by Months arranged in order by Number, Months having the greatest number first.

		1874,			1875,			1876.			1677.	
ë	Montes.	Num- ber.	Per Ct. of Total.	Монтив.	Num- ber.	Per Ct. of Total.	Монтна.	Num- ber.	Per Ct. of Total.	MONTES.	Num- ber.	PerCt. of Total.
ORDER.	Total	55,841	100.00	Total	46,553	100.00	Total	45,172	100.00	Total	50,203	100.00
1	Aug	5,251	9.40	Aug	4,857	9.36	Aug	4,007	8.87	<b>∆</b> ug	4,666	9.29
2	March	5,168	9.25	Apr	4,292	9,22	July	8,960	8.17	Mar,	4,553	9.08
8	May	5,022	8,99	May	4,189	9.00	May	8,951	8,75	April	4,865	8.69
4	April	4,979	8.92	Sept	4,188	9,00	Mar	8,950	8.74	July	4,885	8,63
5	July	4,929	8,83	July	8,949	8,48	Sept	3,891	8.61	May	4,278	8.52
6	Sept	4,839	8.67	Mar	3,984	8,45	April	8,844	8,51	Sept.	4,257	8,48
7	June	4,767	8.54	June	3,780	8.12	Dec	3,708	8.21	June	4,105	8.18
8	Jan	4,284	7.67	Oct	8,705	7.96	Oct	8,707	8.21	Oct	4,061	8,09
9	Feb	4,255	7.62	Jan	8,590	7.71	June	3,685	8.16	Jan	8,965	7.90
10	Oct	4,224	7.56	Feb	8,550	7.63	Nov	8,475	7.69	Feb	8,925	7.82
11	Dec	4,068	7.98	Dec	8,497	7.51	Feb	8,460	7.68	Dec	8,925	7.82
12	Nov	4,010	7.18	Nov	3,462	7.44	Jan	8,430	7.59	Nov	8,694	7.36
	Unk	45	.08	Unk	60	.18	Unk	104	.23	Unk	71	.14
	Aver'ge •	4,653	8.83	Aver'ge.	8,879	8,83	Aver'ge .	8,764	8.83	Aver'ge	4,184	8.83

<sup>.</sup> Including births in unknown month.

EXIIIBIT A.—Births in Michigan during the Year 1877, as Returned, as Corrected for Omissions in the Enumeration;

the same Equalized for Increase of Population during the Year Covered by the Returns, and the Births as thus Corrected and Equalized for the several Months, Equalized for Months of a Uniform length of 30.44 days; also, indicating some of the steps by which these results have been reached. (Still-births and Children of unknown Sex included.)	Year hs of irths	Cover a Uni	od b Jorn hild	y the i leng ren o	Retr	30. 30.	and i	the B tys; inclu	irths also, ided.)	as t indi	hus ( adin	orre 7 som	ted o of
						Ä	MONTHS, 1877.	, 1877.					
H	TOTAL	ig S	Feb.	Nar.	Apr.	May. June. July. Aug.	June.	July.		Sept.	Oct.	Nov.	Dec.
Birthe as returned by Registration Officers. Per cent. of births to be added for correction for time elapsing before enumeration.	726,326	25 18 26 18	2,246	98,98	25 4 25 3	29.68	2,637	2,806	3,227	3,048	3,015	2,847	3,145
Number of births to be added for above correction	16,808	1,758	1,679	3,866	1,710	1,596	1,448	1,436	1,430	1,200	1,046	248	<b>26</b>
Births, if enumerated in months of occurrence	56,133	86,	2,98	25,4	8,	£,278	4 106	38.4	4,666	4,857	1,00,	3,80,	8,926
		18.	88	3.6	3.16	2.81	8	21	1.38	13	8.	F	şi
Births to be added to equalize them to population at close of year	1,150	167	25	190	138	95	101	91	82	8	<b>\$</b>	88	7
Births, as corrected, equalized to population at close of year	51,288	4, 189	4,077	4,716	4,503	88	4,206	4,426	4,744	4,817	4,104	8,720	8,839
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.  Number of births added or subtracted to equalize them to months of uniform length.	<b>1 1 2 9 1</b>	56 +244 75 +866	1784	2 3	1 8	28 82	2 8	1 25 86	25 86	4. 8	8 7	4. 3	12-1
Births, corrected and equalized, equalized to months of uniform length	* 51,833 4,067 4,432 4,631 4,669 4,319 4,268 4,346 4,663 4,380 4,080 3,775 3,868	1,067	1,1	18,	85	4,819	898,	1 86.	4,668	8,	88,	8,776	3,868

Excluding 71 in unknown month.

6		,	VITAI	ST	'ATI	STIC	es (	OF 1	IICHIG.	AN, 1	877.
જેમધ- thus		Dec.	1,681	<b>=</b>	2,043	1 %	1	2,049	181	2,012	
the Is as		Nov.	1,446	5	1,888	12.	82	1,88	4. 4	1,924	
ıs in Birth		Oct.	1,591	8	9, 152	1.8	ន	2,176	2 8	2,136	
issio) the		Sept.	1,530	616	2,146	141	8	2,176	4.4	8,908	
r Om		Ψag.	1,664	類	2,418	1.76	3	2,461	2 7	2,417	
ed fo turns	Моитнв, 1877.	July.	1,514	792	2,276	2.11	<b>3</b>	2,324	25.	2,232	
rrect se Res ach.	Коитв	June.	1,831	787	9,068	2.46	20	2,119	4.4	2,150	
as Co by th	-	Mar. April. May. June. July.	1,314	至	2,108	2.8	8	2,167	2 3	9,188	
ned, ered		April	1,421	8	2,361	8 16	74	9,48	1 4 4	2,461	
Cotur 17 cov 30.		_	1,572	8	88,	8.61	<b>8</b>	2,431	2 7	2,377	month
as I s Yea hs of		Feb.	1,192	8	9,002	8.8	26	8,178	56 + 2.44	98.	помп
877, ng th Mont		Jan	1,187	8	2,163	157	8	2,255	<u> </u>	9,188	in unk
ear 1 n duri d for		TOTAL	à 17, 193	8,825	<b>38</b> ,018		8	28,619	##	38,660	births
EXHIBIT B.—Births of Males in Michigan during the Year 1877, as Returned, as Corrected for Omissions in the Enumeration; the same Equalized for Increass of Population during the Year covered by the Returns, and the Births as thus Corrected and Equalized for the several Months, Equalized for Months of 30.44 Days each.			Births of Males as returned by Registration officers. Fer cent. of births to be added for correction for time elapsing before enumeration.	Number of births to be added for above correction	Births of males, if enumerated in months of occurrence	Per cent, of births to be added to equalise them to population at close of year	Births to be added to equalize them to population at close of year	Births of males, as corrected, equalized to population at close of year	Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.  Number of birthh added or subtracted to equalize them to months of uniform length.	Births of males, corrected and equalized, equalized to months of uniform length.	. Excluding 34 births in unknown month.

						R	MONTHS, 1877.	8, 1877					
	TOTAL	Jan.	Feb. Mar.	Mar.	Apr.	May.	June.	July.	Apr. May. June. July. Aug. Sept. Oct.	Bept.	Oct.	Nov.	Dec.
Births of Females as returned by Registration Officers. For cent, of Births to be added for correction for time elapsing before enumeration.	a 16,077	1,081	1,068	1,308	28 18 28 28	1,865		1,881	1,822 1,881 1,660 1,514 1,423 63.00 48.73 43.86 88.99 34.13	1,514	1,428	28 .08 28 .83	1,507
Number of births to be added for above correction.	2,960	86	£	\$	822	86	902	55	8	8	88	404	267
Births of Females, if enumerated in months of occurrence	24,037	1,817	228,	8,	7,00,4	8	2,082	20.4	776'6	8,16	2,104 1,900	8,1	1,874
Per cent, of births to be added to equalize them to population at close of year.		5	88	8 5	8.16	2.81	3,	8.11	1.78	177	1.8	E	ş
Births to be added to equalize them to population at close of year	92	2	8	#	8	5	28	\$	8	8	8	22	-
Births of Females, as corrected, equalized to population at close of year	24,676	1,803	88,	2,277	2,070	2,224	2,082	2,087	2,288	20.0	1.920	1,813	1,881
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.  Number of births added or subtracted to equalize them to months of uniform length.	- <del> </del>	56 +2,44	1 8 t + 8 t + 1 8 8 t + 1	3 7 1 7	+.4	3 3	+ + + 52	1 8 8	8 7	+.4 + 8	8 8	÷ ÷	8 7
Births of Females, corrected and equalized, equalized to months of uniform length	24,597 1,869 2,068	1,860	2,068	2, 236	2,100	8,184	2,113	2,059	2,236 2,100 2,184 2,113 2,069 2,242 2,166 1,894 1,840 1,840	2,165	1,894	1,840	1,847

· Excluding 32 births in unknown month.

8 EXHIBIT D.—Births of Males and of Females in Michigan during the Year 1877, Corrected for Omissions in the Enumeration, and as thus Corrected, Equalized to Months of Uniform length; also the total Births of both Sexes as thus Corrected and Equalized. (Births of Children of unknown Sex included.)

Darks of Males, if enumerated in months of occurrence							×	Montes,	. 1877.					
ted in months of occurrence		COTAL	Jan.	Feb.							Sept.		Nov.	Dec.
nd equalized to months of uniform longth 26,043 2,104 2,274 2,287 2,385 2,070 2,088 2,205 2,054 2,214 2,177 2,113 1,911 1	Births of Males, if enumerated in months of occurrence.  Days and hundredths by which the months should be increased or diminished to qualize them to months of uniform length.  Number of births added or subtracted to equalize them to months of uniform length.	88,018		2,092 + 2.44 + 182		2,35 1. + 43. +	1		·	2,418 1,58 1,418	2,146 +.44 +31	1.6. 25. 1. 25. 25.	1,883	2,042
rated in months of occurrence months should be increased or dimin.  24,027 1,817 1,823 2,200 2,007 2,168 2,032 2,064 2,344 2,104 1,308 1,810 months of uniform length.  417 -83 + 160 -40 +29 -89 +80 -87 -4166 +.444466 +.444466 +.4444444444444444		26,043	2,104	2,274	2,297	2,385		<u> </u>	<u> </u>	2,874	2,171	2,118	1,911	2,005
land equalized to months of uniform length 24,044 1,784 1,882 2,160 2,036 2,124 2,000 2,017 2,306 2,135 1,875 1,835 1,675 1,835 1	Births of Females, if enumerated in months of occurrence	24,027		1,823 + 2.44 + 156	2,200	2,007 + .44 + 29	<u> </u>	<u>'</u>	<u> </u>	2,244	2, 104 + . <del>4</del> 4 + . 31	1,900 82 1,1	1,810 + .44 + 28	1,874 1.56 1.56
10s, corrected and equalized to months of uni.  10s 11s 11s 10s 11r 97 10s 11l 10s 11s 10s 11s 10s 11r 10s 11l 10s 10s 11s 11		24,044	1,784	1,982	2,297	9,036	<u> </u>	·	•	2,374	9,136	1,875	1,826	1,840
corrected and equalized	ies, corrected and equalized to months of	56,087	888.	4,256	4,467	4,421		1		4,579	4,812	88,	8,787	8,845
. – – – – –		108	118	115	108	111	16	100	Ħ	8	8	113	8	92

meration and Equalized for	Sex included.)
the Enun	unknovon
Omissions in	Children of
Corrected for	Still-births and
1877,	1y8. (¿
Year !	.44 De
EXHIBIT 3.—Births in Michigan during the Year 1877, Corrected for Omissions in the Enumeration and $E$	is of a uniform length of 30
XHIBIT 3.—B	Month

EXHIBIT 3.—Dirths in Michigan during the Tear 1011, Corrected for Unissions in the Emindration and Equatized for Months of a uniform length of 30.44 Days. (Still-dirths and Children of unknown Sex included.)	Still-bird	ns and	i Chi	dren	ere en If uen	know	umer n Ses	uison c incl	una uded.	Lyue )	nezn	6
					4	Сокти	Моктня, 1877.					
	TOTAL.»	Jan. Feb. Mar. April. May. June, July. Aug. Sopt. Oct. Nov. Doc.	. Mer.	April.	May.	June.	July.	Yng.	Sept.	Oct.	Nov.	Dec.
Births, if enumerated in months of occurrence	50,132 3,905 3,925 4,656 4,365 4,365 4,105 4,235 4,666 4,257 4,061 3,694 3,935	88,	4,568	4,365	4,978	4,106	4,836	4,666	4,257	1,061	3,88,	8,935
Days and hundredths by which the months should be increased or dimin.  Left and the months of uniform length  Number of births added or subtracted to equalize them to months of uniform length  form length  Left and Left	† ; <del>2</del>	12 + 27 + 34 + 34 + 34 + 34 + 34 + 34 + 34 + 3	1 2 8	4. +	99°-	4.8	1.58 1.78	25. 25	4. 8	9 2 -	4. 4	- 58 - 17
Births, corrected and equalized to months of uniform length	50,177 3,888 4,387 4,474 4,429 4,201 4,185 4,267 4,688 4,319 3,988 3,748 3,854	388 4,36	7 4.474	4,420	4,201	4,166	4,957	4,689	4,819	8,988	8,748	3,854

studied by means of Table III. The proposition that more than the average number of conceptions occurred when more than the average number of marriages were solemnized, and vice versa, holds true in only seven of the twelve months. It length be borne in mind that in this table the births as returned are used, after being equalized to months of uniform Exhibit B, page 11. The relation of the number of births to the number of marriages in the months of conceptions of the births may be

· Excluding 71 births in unknown month.

TABLE III.—Exhibiting the Relation between the Births Returned as having Occurred in Michigan during the Year 1877, and the Marriages Solemnized in the Months of the Years 1876 and 1877, in which the Conceptions probably occurred. (Births and Marriages in unknown month excluded.)

Bir	THS RETURNED AS HAVI 80.44 DAYS BACH, II	NG OCCUR	RED IN 1877, EQUALIZED TO MOR BY NUMBER, GREATEST FIRST.	THS OF	Number of Marriages from April,
	Вівтня.		CONCEPTIONS.		1876, to March, 1877, equal- ized to Months of
	Year and Months.	Number.	Months.	Year.	30.44 days each.b
Year	r	a 33,326			11,579
No.	August	8,169	November	1876	1,155
٠. <del>۲</del> . ا	September	8,093 ·	December	1976	1,196
the Av. ]	December	3,088	Marche	1877	845
More than t	October	2,960	Januaryc	1877	924
e th	November	2,889	February	1877	908
Ko	July	2,847	October	1876	1,192
Av	verage	2,777			965
No.	June	2,696	Septemberc	1876	1,007
£ .	April	2,694	Julyc	1876	1,012
than the Av. of Births.	March	2,641	June	1876	790
r Bi	May	2,634	August	1876	764
	February	2,442	May	1876	881
Less	January	2,178	April	1876	960

a Excluding 71 births in unknown month.

b Corrected for additional returns, up to February 1, 1879.

c Exceptions to the statement that more than an average number of conceptions appear for months in which more than an average number of marriages were solemnized, and less than an average number of conceptions in months in which less than an average number of marriages were solemnized.

In Exhibit E, the births are corrected for omissions in the enumeration, and compared, by months, with the marriages in the months of conception of the births. The evidence in this exhibit is to the effect that a greater than average marriage-rate is attended with a greater than average conception-rate.

EXHIBIT E .- The Relation between the Births in Michigan during the Year 1877, Corrected for Omissions in the Enumeration, and the Marriages in the Months of the Years 1876 and 1877, in which the Conceptions probably occurred. (Births and Marriages in unknown Month excluded.)

Bre	THS, 1877, CORRECTED A AND EQUALIZED TO M	S IF ENU CONTES OF MBER, GRI	CEBATED IN MONTHS OF OCCUR. UNIFORM LENGTH, IN ORDER B SATEST FIRST.	RENCE,	No. of Marriages from April, 1876, to
	BIRTHS. *		CONCEPTIONS.		March, 1877, equalized to Months of 80.44 Days
	Year and Months.	Number.	Months.	Year.	each. b
Year	r	50, 177			11,579
ó	August	4,582	November	1876	1,155
r. No.	March	4,474	June	1876	790
	April	4,429	July	1876	1,012
the A	September	4,819	December	1876	1,196
chan of B	February	4,267	Mayc	1876	831
More	July	4,257	October	1876	1,192
Ä	May	4,201	Augustc	· 1876	764
A۷	erage	4,181			965
<b>*</b> . !	June	4,165	September	1876	1,007
han the A of Birtha.	October	8,988	January	1877	924
than to	January	8,893	April	1876	960
• ° ₽ °	December	8,854	March	1877	845
Less to No.	November	8,748	February	1877	908

a Unknown month excluded.

b Corrected for additional returns up to February 1, 1879.

Exceptions to the statement that more than an average number of conceptions appear for months in which more than an average number of marriages were solemnized, and less than an average number of conceptions in months in which less than an average number of marriages were solemnized.

TABLE IV.—Exhibiting, by Counties and by Sex, the Number of Children Returned as having been born in Michigan during the Year, and in each Month of the Year Ending December 31, 1877. (Still-births included.)

amimo.		0.0						Mon	тнв,	1877					
STATE  AND  COUNTIES.	Sex.	YEAR, 1877.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	Total	33,395	2212	2246	2690	2655	2683	2657	2899	3227	3048	3015	2847	3145	7
	Males	17,227	1187	1192	1372	1421	1314	1331	1514	1664	1530	1591	1446	1631	3
State	Females	16,109	1021	1053	1308	1999	1365	1323	1381	1560	1514	1423	1393	1507	3
4-11-11-11-11-11-11-11-11-11-11-11-11-11	Unknown	59	4	1	10	5	4	3	4	3	4	1	8	7	
	Excess of Males														
	Total	- 44	- 2		- 5	1	-	5	7	5	6	3	9	4	
Alcona	Males	29	2	100	5	1	2	2		5	5			3	
	Females	15					. 2	3	3		1	3	2	1	
	Total	773	48	49	66	57	61	54	62	93	66	65	72	80	
Allegan	Males	404	24	29	40	27	25	33	30	50	39	34	40	33	
	Females	369	24	20	26	30	36	21	32	43	27	31	32	47	
	Total	160	11	9	12	9	13	8	13	14	24	17	18	12	
Alpena	Males	86	8	9	3		7	5	6	5	14	9	10	6	
	Females	74	3		9	5	6	3	7	9	10	8	8	6	
	Total	126	7	7	10	8	14	10	10	15	14	13	6	6	1
Antrim	Males	68	2	2	7	4	8	4	6	6	9	9	4	5	1
,	Females	58	5	5	3	4	6	6	4	9	5	4	2	1	
	Total	57	4	5	10	4	1	8	3	3	7	7	1	4	
Baraga	Males	27	4	1	4	1		4	2	1	3	5	1	1	
A. M. Caller	Females	30		4	6	3	1	4	1	2	4	2		3	
	Total	547	29	41	30	29	40	44	57	65	41	68	59	44	
	Males	294	20	23	14	14	21	27	28	31	23	33	35	25	
Barry	Females	252	9	18	16	15	19	17	29	34	18	35	24	18	
	Unknown	1												1	
	Total	893	68	66	80	65	81	65	70	80	69	70	78	100	
Bay	Males	466	37	36	44	32	34	33	36	43	37	37	40	57	
And the second	Females	427	31	30	36	53	47	32	34	37	32	33	38	43	1
	Total	82	2	4	12	7	7	5	13	9	6	7	3	7	
Benzie	Males	44		2	6	4	6	1	7	8	3	1	2	4	
	Females	38	2	2	6	3	1	4	6	1	3	6	1	3	
	Total	609	39	87	54	52	47	51	47	36	72	59	60	55	
Berrien	Males	284	19	14	27	21	20	25	25	19	30	27	34	23	
	Females	325	20	23	27	31	27	26	22	17	42	32	26	32	

<sup>\*</sup> Except of counties and townships not represented by returns of births in 1877.

TABLE IV.—Continued.—Births by Counties, by Months, and by Sex.

								Mon	THS,	1877					
COUNTIES.	Sex.	YEAR, 1877.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	Total	504	80	85	40	- 88	46	45	48	52	89	54	50	87	
Branch	Males	259	18	16	20	21	25	20	22	21	22	28	21	25	
Branca	Females	244	12	19	20	11	21	25	21	81	17	26	29	12	
į	Unknown	1	••••			1					·		<b> </b> -		
1	Total	581	29	87	85	48	45	56	41	56	65	51	59	59	ļ
Calhoun	Males	309	9	25	21	24	28	25	26	81	86	29	80	80	ļ
Carnoun	Females	271	20	12	14	23	22	81	15	25	29	22	29	29	
į	Unknown	1	••••			1									<b> </b>
!	Total	405	82	82	80	25	29	24	43	42	48	43	26	82	1
Cass	Males	199	23	19	14	12	14	9	15	21	21	23	13	16	1
į	Females	206	11	13	16	18	15	15	26	21	27	20	13	16	
1	Total	114	6	9	4	18	10	18	14	14	8	4	6	7	6
Charlevoix	Males	56	2	7	2	9	6	8	8	4	4	8	2	8	8
	Females	57	4	2	2	4	4	10	6	10	4	1	4	4	2
į	Unknown	1											••••		1
1	Total	94	7	8	5	5	6	9	7	17	11	9	7	8	
Cheboygan	Males	49	2	1	2	2	4	4	8	10	9	8	5	4	
	Females	45	5	2	8	8	2	5	4	7	2	6	2	4	
}	Total	88	2	8	1	8		8	8	5	8	2	8	5	
Chippewaa	Males	14		8		1		1	2	8		1	2	1	
į	Females	19	2		1	2		2	1	2	8	1	1	4	
1	Total	43	8	4	1	]	4	7	8	2	8	4	4	7	
Clare	Males	21	2	2	1		8	8	8	1	1	1	2	2	
	Females	22	1	2		1	1	4		1	2	8	2	5	
	Total	508	83	25	27	36	87	<b>50</b>	57	49	41	49	49	60	2
Clinton	Males	290	12	11	14	21	19	27	24	26	23	81	28	22	2
	Females	246	21	14	18	15	18	28	83	16	18	18	21	36	
1	Unknown	2												2	
	Total	148	15	18	17	18	16	7	8	17	7	8	8	12	
Delta	Males	61	7	8	8	6	6	8	8	6	8	2	4	5	
1	Females	87	8	10	9	9	10	4	5	11	4	8	4	7	
1	Total	524	29	80	89	58	46	42	48	58	55	89	44	45	1
Inton	Males	272	14	19	26	83	20	27	25	24	81	16	20	17	
	Females	252	15	11	18	20	26	15	25	99	24	23	24	28	1

<sup>&</sup>lt;sup>a</sup> He returns from townships of Detour and Sugar Island. <sup>b</sup> He returns from townships of Sheridan and Winterfield.

### VITAL STATISTICS OF MICHIGAN, 1877.

TABLE IV.—Continued.—Births by Counties, by Months, and by Sex.

							1	мом	THS,	1877.					
COUNTIES.	SEX.	YEAR, 1877.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	Total	105	12	7	10	15	10	4	10	5	5	6	8	18	
	Males	56	8	4	4	5	6	<b></b>	7	8	2	4	7	6	
Emmet	Females	48	4	8	5	10	4	4	8	2	3	2	1	7	
ł	Unknown	1			1										
1	Total	640	40	44	48	52	42	50	69	64	68	51	61	45	6
Genesee	Males	311	20	23	27	24	17	26	83	82	29	25	32	19	4
į	Females	329	20	21	21	28	25	24	86	32	39	26	29	26	2
9	Total	3						1		1	1				
Gladwinb	Males	1			•			••••		1					
l	Females	2						1			1				
!	Total	171	4	12	18	17	18	10	20	23	11	12	14	12	
Grand Traverse	Males	96	4	9	5	9	8	6	12	13	9	6	6	9	
į	Females	75		8	13	8	10	4	8	10	2	6	8	3	
{	Total	419	20	29	36	87	85	85	39	45	38	35	38	32	
Gratiot	Males	211	10	18	15	17	19	16	19	22	16	23	16	21	
Giano	Females	207	10	11	20	20	16	19	20	23	22	18	22	11	
i	Unknown	1			1										
1	Total	478	26	25	83	42	84	84	37	51	61	45	87	48	
Hillsdale	Males	220	16	11	11	22	17	15	19	22	28	18	17	24	
1111154810	Females	252	10	14	21	20	17	19	18	23	88	27	20	24	
į	Unknown	1			1										
9	Total	895	59	52	88	66	82	70	71	78	88	82	79	79	1
Houghton	Males	447	80	30	44	30	36	37	33	33	46	42	41	44	1
110ugueen	Females	441	28	22	42	36	44	82	38	45	42	40	87	85	
į	Unknown	7	1		3		2	1					1	•	
1	Total	485	25	44	42	44	40	43	46	38	39	44	30	49	1
Huron	Males	246	12	27	27	24	21	20	20	19	15	22	10	20	
	Females	239	13	17	15	20	19	23	26	19	24	22	90	90	1
1	Total	526	21	85	42	37	81	38	42	63	44	57	58	58	
Ingham	Males	279	12	18	20	24	15	17	24	86	21	27	82	33	
тиривии	Females	244	9	17	21	13	16	21	18	27	23	30	24	25	
. 1	Unknown	8			1								2		
!	Total	635	29	48	50	61	42	53	60	66	58	60	58	60	
Ionia	Malos	888	12	27	24	84	29	80	32	29	81	88	24	28	
ZVIII	Females	299	17	21	26	27	18	23	27	37	21	27	26	32	
į	Unknown	8	<b> </b>						1		1		1		

No returns from townships of Center, Friendship, and Pleasant View.
No returns from township of Grout.

TABLE IV.—Continued.—Births by Counties, by Months, and by Sex.

							1	MON	THS,	1877.					
COUNTIES.	SEX.	YEAR, 1877.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	[Total	127	11	8	7	10	15	15	9	8	16	6	8	14	
osco	Males	68	5	6	3	6	6	8	2	5	10	6	3	8	
	Females	59	6	2	4	4	9	7	7	3	6		5	6	
	[ Total	266	20	14	21	25	25	22	22	28	24	26	17	22	
	Males	145	12	7	9	14	14	12	18	11	15	16	8	14	
sabella	Females	120	8	7	12	10	11	10	9	17	9	10	9	8	
	Unknown	1				1								1	
sle Royal															
	[ Total	771	48	48	61	60	66	77	58	74	72	66	55	86	
ackson	Males	388	25	27	26	37	31	36	27	33	30	33	33	50	
	Females	383	23	21	35	23	35	41	31	41	42	33	22	36	
	(Total	611	43	41	39	51	59	34	54	65	51	57	48	68	
Salamazoo	Males	319	25	21	20	27	84	20	26	32	27	25	20	42	
	Females	292	18	20	19	24	25	14	28	33	24	32	28	26	-
	[ Total	47	4	3	6	2	6	3	2	3	3	5	6	4	
alkaska	Males	21		1	2		4	2	1	3		3	3	2	
	Females	26	4	2	4	2	2	1	1		3	2	3	2	
	(Total	1,689	150	101	154	125	108	135	144	137	155	153	143	167	
	Males	859	83	58	72	57	58	77	74	76	66	86	63	86	
Kent	Females	824	67	48	80	68	49	58	70	61	88	66	80	80	
	Unknown	6			2		1				1	1		1	
	[Total	297	17	20	36	24	27	21	34	21	25	33	20	19	
	Males	158	8	9	23	14	18	11	19	10	9	17	12	8	
Keweenaw	Females	188	9	11	13	10	9	10	15	11	16	16	8	10	
	Unknown	1							10					1	1
	[Total	69	5	3	3	10	7	10	6	3	7	6		2	
Lake	Males	40	4	1		9	3	7	3	1	6	2	3	1	
	Females	29	1		3	1	4	3	3	9	1	4	3	1	1
	(Total	612	52	100	46	38	52	48	54	49	57	70	52	57	
	Males	310	24	24	23	22	27	21	26	27	31	36	25	24	"
Lapeer	Females	301	28	13	23	16	25	27	28	22	26	34	26	33	-
	Unknown	1	-		-0							-	1	- 00	
	(Total	163	6	5	7	18	17	20	16	15	15	16	17	10	-
Leelanaw	Males	90	4	2	4	9	8	12	9	6	10	12	8	5	1
Colana W	Females	73	2		3	9	9	8	7	9	5	100	9	5	

No returns from county clerk.

TABLE IV.—Continued.—Births by Counties, by Months, and by Sex.

							3	fon1	THS,	1877.					_
counties.	SEX.	YEAR, 1877.	January.	February.	March.	April.	May.	June.	July.	August.	Beptember.	October.	November.	December.	Unknown.
	Total	813	37	59	56	57	81	55	69	78	98	89	71	73	
Lenawee	Males	443	16	25	29	85	48	27	39	40	51	53	40	45	
. {	Females	370	21	84	27	22	38	28	30	88	42	86	81	28	
ſ	Total	400	84	26	80	88	84	26	36	39	87	28	42	35	
Livingston	Males	225	23	9	12	19	19	14	22	. 26	22	18	25	21	
{	Females	175	11	17	18	14	15	12	14	18	15	15	17	14	
ſ	Total	55	8	4	6	2	1	- 5	6	9	8	5	4	7	
	Males	88		4	3	1	1	3	8	6	2	1	4	5	
Mackinac	Females	21	8		8	1		2	2	8	1	4		2	
	Unknown	1	••••						1						
ſ	Total	701	50	49	65	65	46	51	64	85	55	58	62	57	1
Macomb	Males	373	26	25	38	36	24	30	83	38	83	81	38	25	1
Į	Females	828	24	17	27	29	22	21	81	47	22	27	29	82	
ſ	Total	378	27	29	24	84	83	35	87	36	30	41	29	13	
Manistee	Males	182	11	13	11	15	19	22	18	18	18	20	16	6	
	Females	196	16	16	13	19	14	13	19	18	17	21	28	7	
ſ	Total	34	4	1	3	4		5	1	3	5	4	2	2	
Manitoub	Males	21	2	1	2	8		3	1	2	8	1	2	1	
· ·	Females	18	2		1	1		2		1	2	8		1	
. (	Total	698	28	45	54	55	58	64	73	78	48	68	64	78	
Marquette	Males	378	20	26	24	25	27	84	44	38	26	88	82	44	
	Females	325	8	19	30	80	26	30	29	85	22	30	82	84	
ſ	Total	148	14	6	18	16	18	7	11	17	16	9	17	9	
	Males	82	11	2	7	11	2	2	7	12	8	7	8	5	
Mason	Females	65	3	4	6	5	11	5	4	5	8	2	8	4	
, (	Unknown	1											1		
(	Total	271	12	19	23	21	26	25	80	84	18	25	23	14	1
Mecosta	Males	150	5	11	10	12	17	10	19	21	8	15	15	6	1
Į.	Females	121	7	8	13	9	9	15	11	13	10	10	8	8	
ſ	Total	67	2	5	5	11	5	6	6	6	6	5	8	6	1
Menominee	Males	36	2	2	5	6	2	2	3	1	4	4	2	2	1
	Females	31		3		5	8	4	8	5	2	1	1	4	
(	Total	102	5	7	12	8	7	10	11	7	6	8	34	7	
i i		52	3	8	8	7	5	8	5	2	2	5	8	1	
Midland {	Males	-	_		Y	. •	-		-	-	-	_		-	

a No returns from township of Holmes.
b No returns from township of Chandler.
c No returns from townships of Breitung, Cedarville, and Spaulding.

TABLE IV .- CONTINUED .- Births by Counties, by Months, and by Sex.

							1	Мои	THS,	1677.	•				
COUNTIES.	Sex.	YEAR, 1877.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
•	Total	84	8	5	1	2	5	2	8	4	4	2	8		
Missaukee	Males	13	2	3	1	1	3	1	1	1	1	1			
	Females	21	3.	2		1	4	1	2	3	3	1	3		
	Total	692	46	47	58	56	48	53	41	81	57	70	63	71	:
Monroe	Males	849	23	23	28	28	26	23	25	41	32	32	<b>3</b> 6	81	:
	Females	843	23	24	80	28	22	80	16	40	25	88	27	40	
	Total	458	29	84	27	40	40	28	44	48	40	32	47	49	
Montcalm	Males	225	15	14	10	24	21	12	25	25	17	16	26	20	
Autonim	Females	232	13	20	17	16	19	16	19	23	23	16	21	29	
	Unknown	1	1												
	Total	389	17	26	34	29	83	31	39	44	34	38	26	<b>3</b> 8	
Muskegon	Males	.201	13	13	18	17	17	10	19	25	17	24	10	18	<b></b> -
<b></b>	Females	187	4	18	16	12	16	21	20	19	17	14	15	20	
	Unknown	1		••••		•							1		
1	Total	246	15	19	9	19	80	22	13	18	21	28	32	20	
Newaygo	Males	183	8	9	8	14	15	16	5	9	11	18	18	12	
	[Females	113	7	10	6	5	15	6	8	9	10	10	19	8	
	Total	640	36	84	40	46	67	47	60	68	58	66	53	65	
Oakland	Males	307	16	19	22	20	26	23	26	86	29	30	27	83	
	Females	327	19	14	17	25	41	23	84	31	29	36	26	82	
i	Ünknown	6	1	1	1	1		1		1					
	Total	233	18	16	24	15	19	23	18	29	19	21	14	21	:
Oceans	Males	115	8	5	12	7	8	10	12	12	8	11	10	12	
	Females	117	5	11	12	8	11	13	6	17	11	10	4	9	
	Unknown	1						•					•	•	
Ogemaw												•			
	Total	74	4		9	7	11	9	8	4	5	5	5	12	••••
Ontonagon	Males	40	2		4	4	4	3	8	8	3	4	3	8	• • • •
	Females	34	2		5	8	7	6 22		1 26	20	] 14	12	4	
	Total	278	25	25	81	29	19 7		26 16	26 16	70	7	12	24 11	
Osceola	Males	141	16	14	15	15	12	11 11	10	10	13	7	6	11	
	Females	132	9	11	16 2	14	12		10	10	13	1	1		
<b>.</b>	Total	11	1		1 3	1	2	••••	4			1	1		
Otsegob-	Males	4	1	1		1	1		••••			1	1		•
	[Females	7			2	1	1 1		1				4		

a County clerk says no returns of births from supervisors for 1877.
b No returns from townships of Charlton, Elmira, and Livingston.
3—1877.

TABLE IV.—Continued.—Births by Counties, by Months, and by Sex.

Saginaw       Males       653       58       51       60       56       50       54       65       53       51       52       45       58          Females       722       46       50       54       69       66       69       62       56       71       63       50       63       3         Unknown       3         1        1       1       1            1       1		I	l 1						., o,							_
COUNTIES.   SEX.   1877.									HON.	. пъ,	1017.					
Ottawa    Males	COUNTIES.	Sex.		January.	February.	March.	April.	May.	June.	Julý.	August.	September.	October.	November.	December.	Unknown.
Ottawa    Males		Total	947	72	78	101	78	51	70	72	83	101	84	78	79	
Females			509	39	33	46	49	27	36	43	46	55	52	43	40	
Presque Isle	Ottawa	Females	435	82	45	55	29	24	34	29	36	46	82	34	<b>3</b> 9	
Presque Isle	į	Unknown	3	1				٠			1			1		<b> </b>
Females	1	Total	78	8	8	6	2	6	6	8	4	1i	7	4	3	
Roscommon	Presque Isle	Males	83	4	3	2	2	1	3	2	8	8	2	2	1	
Roscommon   Males   3		Females	40	4	5	4		5	8	6	1	8	5	2	2	
Females	!	Total	5		1					1		1			2	
Saginaw       1,878       104       101       114       125       117       123       127       110       123       115       95       121       3         Males       653       58       51       60       56       50       54       65       53       51       52       45       58	Roscommonb	Males	3							1		1			1	
Saginaw       Males       653       58       51       60       56       50       54       65       53       51       52       45       58          Females       722       46       50       54       69       66       69       62       56       71       63       50       63       3         Unknown       3         1        1       1       1          1       1       1	į	Females	2		1										1	
Females	1	Total	1,878	104	101	114	125	117	193	127	110	123	115	95	121	8
Females	Reginew	Males	653	58	51	60	56	. 50	54	65	53	51	52	45	<b>5</b> 8	
Sanilae       Total       500       40       25       43       48       50       41       39       39       46       44       36       49          Males       255       18       11       24       28       23       20       18       18       24       26       17       28          Females       245       22       14       19       20       27       21       21       21       22       18       19       21          Schoolcraft       Males       8         3         1       2        4        1	Cagram v	Females	722	46	50	54	69	66	69	62	56	71	63	50	63	3
Sanilac       Males       255       18       11       24       28       23       20       18       18       24       26       17       28          Females       245       22       14       19       20       27       21       21       21       22       18       19       21          Schoolcraft       Males       8         3         1       2        4        1         1       2        4        1 <td>į</td> <td>Unknown</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td> </td> <td>•</td> <td>1</td> <td>1</td> <td></td> <td></td> <td></td> <td></td>	į	Unknown	8					1		•	1	1				
Females   245   22   14   19   20   27   21   21   22   18   19   21		Total	500	40	25	43	48	50	41	39	89	46	44	<b>3</b> 6	49	
Schoolcraft	Sanilac	Males	255	18	11	24	28	23	20	18	18	24	26	17	28	
Schoolcraft       6       Males       8         3        1       2       2         1         1       2        2        1         1         2        1          2        1          2        1	į (		245	22	14	19	20	27	21	21	21	22	18	19	21	
Females		Total	13	1				1		_	2		4		1	
Shiawassee	schoolcraft		8				3			1	2		2			
Shiawassee			l		•			1					2		1	
Females			1				ŀ	1	1			48	42	45	52	
St. Clair	Shiawassee		1		l								29		25	
St. Clair	l		1				i								1	
St. Clair			1					1							1	8
Unkuown 3 2 1 1  Total 458 21 20 25 23 48 38 35 47 46 46 45 38 1  St. Joseph	St. Clair															
8t. Joseph					40	46	47	39	388		58	52	49	57		
8t. Joseph	1	•	1									••••				
Females 214 10 6 14 11 26 26 19 23 26 19 17 17		1												1		i -
	at. Joseph															1
						1		-					1 1			
		Total	533	29	84	55	44	39	56	52	59	50	46	29	40	
Tuscola	Tuscola	i	1					- 1								
Females 255 12 16 29 23 20 32 25 26 25 18 12 18		( Females	205	12	16	29	23	30	82	25	26	72	18	12	18	••••

<sup>No returns from township of Presque Isle,
No returns from townships of Denton and Higgins,
No returns from townships of Munising and Onota.</sup> 

# BIRTHS BY COUNTIES, BY MONTHS, BY SEX.

TABLE IV.—Continued.—Births by Counties, by Months, and by Sex.

							1	Mon	гн8,	1877.					
COUNTIES.	Sex.	YEAR, 1877.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	[Total	514	34	29	41	44	30	30	55	67	44	39	50	46	5
Van Buren	. Malea	274	23	19	18	22	13	16	30	35	20	22	27	27	2
	Females	. 240	11	10	23	22	17	14	25	32	24	17	23	19	3
	[Total	647	42	45	56	53	67	54	45	51	59	76	46	53	
Washtenaw	_{ Males	326	28	28	25	21	30	30	19	22	31	39	18	35	
	Females	321	14	17	31	32	37	24	26	29	28	37	28	18	
	[Total	1,736	367	354	370	333	353	344	410	435	419	406	414	522	9
Wa	Males	2,563	197	196	218	199	167	172	237	248	222	217	213	274	8
Wayne	Females	2,165	170	158	151	133	186	171	173	187	196	189	201	247	3
	Unknown	8			1	1		1	***		1			1	3
	[Total	111	4	6	4	12	9	9	7	8	15	5	12	20	
Wexford	a Males	46	3	3	3	4	5	4	3	2	2	4	6	7	
	Females	65	1	3	1	8	4	5	4	6	13	1	6	13	

<sup>•</sup> No returns from township of Harring, and 1st, 2d, and 3d wards of city of Cadillac.

TABLE V.—Exhibiting, by Color and by Sex, the Number of Children returne as having been born in Michigan during the Year 1877, and the Per Cen of Children of each Sex to the Total Number of both Sexes. (Still-birth included.)

COLOR OB · RACE.	SEX.	Children Born in 1877.	Per Cent. of each Sex to Children of both Sexes.
	Total	83,395	
All Colors	Males	17,227	51.69
All Colors	Females	16,109	48.32
	Unknown	59	
4	(Total	32,805	
	Males	16,927	51.66
White	Females	15,842	48,84
	Unknown	36	
	[Total	102	
Black	Males	57	55,88
	Females	45	44.12
	Total	87	
Mulatto	Males	46	52.87
	Females	41	47.13
	[Total	130	ļ
Indian	Males	67	51,54
	Females	53	48.46
	[Total	271	
77-1	Males	130	52.42
Unknown color	Females	118	47.58
	Unknown	23	
	[Total	189	
Black and Mulatto.	Males	103	54.50
	Females	86	45,50

Table VI. contains, by counties, the number of births in 1877, the popultion in 1874, the birth-rate, and the proportion of males among births. The usual propositions made concerning the birth-rate and the proportion of males are as follows: 1, greater than average birth-rate, more than average proportion of males; 2, greater than average birth-rate, less than average proportion of males; 3, less than average birth-rate, less than average proportion of males; 4, less than average birth-rate, more than average proportion of male. In this table there are three counties for which no statement is made; and the remaining 73 counties, the first proposition was true in 24 counties, the second was true in 18 counties, the third was true in 17 counties, and the fourth was true in 14 counties. The proposition, therefore, that a greate than average birth-rate was attended with a larger than average proportion of males, and vice versa, held true, in 1877, in 41 out of 73 counties.

TABLE VI.—Exhibiting for the State and Counties of Michigan, by Sex, the Population in 1874, the Per Cent. of Births in 1877 to Population in 1874, the Number of Males to 100 Femules born during the Year 1877, and by Sex and Color the Number of Children born during the Year ending December 31, 1877. (Still-births included.)

STATE	Births,-		Per Ct. of Births	Popula- tion in	Per Ct. of Births	Cor	ов,—Сн	ILDRE	n Bor	N IN 1	877.
AND COUNTIES.	Males to 100 Females.	Sex.	of each Sex to Total of both Sexes.	1874 Represented by Births in 1877.	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White,	Black,	Mu- latto.	In- dian.	Unk
		Total		1,829,808	2.51	83,895	32,805	ь 102	87	130	27
		Males	51.68	694,751	2.48	17,227	16,927	57	46	67	13
state	107	Females.	48.32	635,057	2.54	16,109	15,842	45	41	d 63	11
	1	Unknown			ļ	59	36		ļ	<b> </b> -	2
		Total		1,214	8.62	44	41				
Alcona	193	Males	65,91	688	4.22	29	29				
		Females	84.09	526	2,85	15	15			ļ	
		Total		82,381	2.39	773	755	1	8	1	1
Allegan	109	Males	52.26	16,976	2.88	404	396	ļ	1		
	1	Females.	47.74	15,405	2.40	869	359	1	2	1	
		Total		4,807	8.33	160	160	<b> </b>			
Alpens	116	Males	53.75	2,808	8,06	86	86		ļ		
	1	Females .	46.25	1,999	8.72	74	74	ļ			<b> </b>
		Total	•	8,002	4.20	126	124			2	
Antrim	117	Males	58.97	1,654	4.11	68	66			2	
		Females	46.03	1,348	4.30	58	58				
	1 :	Total	••••	•	e	57	41			16	
Baraga	90 -	Males	47.37			27	21		•••••	f 6	
	} '	Females .	52,63			30	20		•••••	E 10	
		Total		22,051	2.43	547	548				
Barry	117	Males	53.85	11,588	2.54	294	294				
•		Females.	46, 15	10,463	2,41	252	252			•••••	
		Unknown		•••••		1					
_		Total		24,832	8.60	893	886	3	<b>~</b> -	4	
Bay	109	Malos	52,18	13,657	8.41	466	462	1		3	
1	1	Females.	47.82	11,175	3.82	427	424	2	•••••	1	•
	1	Total		2,663	8,08	82	82	•••••			
Benzie	116	Males	53.66	1,422	8,09	44	44				
		Females.	46.84	1,241	8.06	88	38				

<sup>\*</sup> For counties and townships from which no returns of births were received, see Table XXI.
\* Includes 8 males and 4 females "Colored."
\* Includes 9 "Half-breed," and 1 % Indian, % White.
\* Includes 9 "Half-breed," 1 "Copper-colored," and 1 % Indian, % White.
\* Population of Baraga county cannot be ascertained. It was compiled with Houghton county.
\* Includes 4 "Half-breed," and 1 % Indian, % White.
\* Includes 6 "Half-breed," and 1 % Indian, % White.

TABLE VI.—Continued.—Births by Counties, by Sex, and by Color.

			Per Ct.	Popula-	Per Ct.	Cor	or,—Ch	LDRE	Bor Bor	N IN 1	B77.
COUNTIES.	Births,— Males to 100 Females.	SEX.	Births of each Sex to Total of both Sexes.	tion in 1874, Rep- resented by Births in 1877.	Births of each Sex to Popula- tion of same Sex.	Total of all Colors.	White,	Black,	Mu- latto.	In- dian.	Unk.
		Total		85,029	1.74	609	603	4	2		
Berrien	87 {	Males	46.63	17,942	1.58	284	281	2	1		
	Į	Females	53.37	17,087	1,90	325	322	2	1	ļ	
		Total		25,726	1.96	504	501				8
Branch	102	Males	51.49	13,041	1.99	259	258				1
Dianon	102	Females	48,51	12,685	1.92	244	248			<b> </b>	1
	į	Unknown				1					1
		Total		85,655	1.63	581	569	5	3	3	1
Calhoun	114	Males	<b>53.2</b> S	18, 156	1,70	309	304	2	1	1	1
ORIHOUM	114	Females.	46,72	17,499	1.55	271	264	8	2	2	<b></b>
		Unknown				1	1				
		Total		20,525	1.97	405	369	7	28	<b></b>	1
Cass	97	Males	49.14	10,592	1.88	190	178	4	16		1
	1	Females.	50.86	9,933	2.06	206	191	3	12		
		Total		2,360	4.83	114	107	1		5	1
Charlevoix.	98	Males	49.56	1,280	4.38	56	52	1		8	
CHarlevolk.	90 1	Females.	50.44	1,080	5.28	57	55			2	
		Unknown			·	1					1
		Total		3,070	3.06	94	86			8	
Cheboygan	109 -	Males	52.13	1,706	2.87	49	45			- 4	
		Females.	47.87	1,364	3,30	45	41		<b></b> .	b 4	
		Total		1,617	2.04	83					83
Chippewa	73 -	Males	42,42	918	1.53	14					14
		Females.	57.58	699	2.72	19					19
		Total		1,114	3.86	43	43				
Clarec	95 -	Males	48.84	607	8.46	21	21				
		   Females .	51.16	507	4.84	22	23				
		Total	<b> </b>	23,661	2.15	508	504	1	1		2
<b></b>		Males	51.38	12,162	2.14	260	258	1	1	<b> </b>	
Clinton	106 -	Females.	48.62	11,499	2.14	246	246				
		Unknown		 		2				<b> </b>	2
	<u> </u>	Total		4,741	8,12	148	144			4	
Delta	70 -	Males	41.22	2,882	2.12	61	59			2	
		Females.	58.78	1,859	4.68	87	85			2	
	l				1		1	I			1

Includes 3 "Half-breed."
 Includes 2 "Half-breed."
 For townships from which no returns of births were received, see Table XXI.

TABLE VI.—Continued.—Births by Counties, by Sex, and by Color.

	i	ī	Per Ct.	1	Per Ct.			<del></del>			
	Births,—	[	of Births	Popula- tion in	of Births	Cor	OR,—CH	ILDRE	n Bor	M IN I	877.
COUNTIES.	Males to 100 Females,	SEX.	of each Sex to Total of both Sexes.	1874 Represented by Births in 1877.	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White.	Black,	Mu- latto.	In- dian.	Unk.
		Total		26,907	1.94	524	523	1			
Eaton	106	Males	51.91	13,875	1.96	279	271	1			
	{	Females.	48.09	13,082	1.93	252	252		ļ		
	!	Total		1,272	8,25	105	69			85	1
Emmet	117	Males	53.85	669	8.37	56	88			18	
Emmet		Females.	46.15	603	7.96	48	80		<b></b>	17	1
	į i	Unknown				1	1		<b> </b> -		
	ſ	Total		84,568	1.85	640	633	4	1	1	1
Genesee	95 ∢	Males	48.59	17,536	1.77	811	810	1			
	(	Females.	51.41	17,032	1.93	829	323	8	1	b 1	1
	ſ	Total		146	2.05	3	8			ļ	
Gladwin	50	Males	83.83	81	1.23	1	1			ļ	
	į	Females.	66.67	65	3.08	2	2		ļ		j
	ſ	Total		5,349	3.90	171	171				
Gr. Traverse	128	Males	56,14	2,801	8.43	96	96			ļ	
	į	Females.	43.86	2,548	2.94	73	75		<b> </b> -	ļ. <b></b>	
	1	Total		13,886	8.02	419	418		1	ļ <b></b>	
Gratiot	102	Males	50.48	7,304	2.89	211	210		1		
Giatios	102	Females.	49.52	6,582	8.14	207	207		ļ		ļ
	l	Unknown				1	1			ļ	ļ
		Total		31,566	1.50	473	463		1		9
Hillsdale	87 -	Males	46,61	15,971	1.38	220	215		1	ļ	4
TATISURIE	8 1	Females.	53,39	15,595	1.62	252	248				4
` `	l	Unknown				1				ļ	1
		Total		19,030	4.70	893	390				5
Houghton	101	Males	50.84	11,013	4.06	447	447				
TOURDON	101 3	Females .	49,66	8,017	5,50	441	441				
į	į	Unknown				7	2			•••••	5
į	1	Total		11,964	4.05	485	485	<b> </b>			
Ruron	103	Males	50.72	6,614	3.72	246	246				
		Females .	49.28	5,850	4.47	239	239				
	ſ	Total		29,193	1.80	526	518	8	8		2
	1	Malas	53_85	15,204	1.84	279	275	3	1		
Inch	!	Males	00.00	1,							
lagham	114	Females	46.65	13,989	1.74	244	212		2		

<sup>\*</sup>For townships from which no returns of births were received, see Table XXI.

\* Copper Colored."

\* Includes the population of Baraga county.

TABLE VI.—CONTINUED.—Births by Counties, by Sex, and by Color.

	Births.—		Per Ct. of Births	Popula- tion in	Per Ct. of Births	Core	ов,—Сн	LDREN	Born	TN 18	77.
COUNTIES.	Males to 100 Females.	Sex.	of each Sex to Total of both Sexes.	1874 Represented by Births in 1877.	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White.	Black.	Mu- latto.	In- dian.	Unk.
		Total		28,376	2.24	635	634		1		
Ionia	111	Males	52.69	14,788	2,25	333	833				
101118	''' ]	Females.	47.31	13,588	2,20	299	298		1		
•	} (	Unknown				8	3				
•		Total		4,575	2.78	127	127				
Iosco	115 {	Males	53.54	2,706	2.51	68	.68				
		Females .	46.46	1,869	, 8.16	59	59				
	] ;	Total		6,059	4.39	266	245		8	17	1
Isabella	121	Males	54.72	3,273	4.43	145	132		8	10	
199 00190	121	Females .	45.28	2,786	4.31	120	113		<b></b> .	7	
	l i	Unknown		•••••		1	ļ	<b> </b> -			1
Isle Royal.							<b></b>	<b></b>	<b></b>		
		Total		37,988	2.03	771	764	7			
Jackson	101	Males	50.82	19,853	1.95	388	384	c 4			
	1	Females.	49.68	18, 135	2.11	383	380	8	ļ		
		Total		32,284	1,89	611	602	9			
Kalamazoo	109	Males	52.21	16,583	1.92	319	313	d 6			<b> </b>
		Females.	47.79	15,701	1,86	292	289	• 3		<b> </b>	
		Total		1,259	8.73	47	46	ļ		1	
Kalkaska	81 -	Males	44.68	692	3.03	21	21		İ		
	j	Females.	55.32	567	4.58	26	25	ļ		1	
		Total		62,671	2.70	1,689	1,675	5	7		2
Kent	104	Males	51.04	32,576	2.64	859	851	8	5		
Yeur	104	Females.	48,96	30,095	2.74	824	820	2	2		! 
		Unknown	ļ		ı 	6	4				9
	ļ	Total	<b>]</b>	5,411	5.49	297	297				
W		Males	53.88	8,233	4.89	158	158				
Keweenaw.	114 -	Females.	46.62	2,178	6.34	138	138				
•		Unknown			<b> </b>	1	1				
	1	Total		1,813	3.81	69	68			1	
Lake	138	Males	57.97	1,015	8,94	40	40				
	1	Females.	42.03	798	3.63	29	28	1	ł	1	ı

<sup>■</sup> For townships from which no returns of births were received, see Table XXI.

▶ No returns from county clerk.

◦ Includes 1 "Copper Colored."

◀ Includes 4 "Colored."

◆ Includes 2 "Colored."

TABLE VI.—Continued.—Births by Counties, by Sex, and by Color.

	Γ	I	Per Ct.	1	Per Ct.						
	Births,—	ŀ	of Births	Popula- tion in	of Births	Corc	or,—Ch	LDREN	r Bor	N IN 1	377.
COUNTIES.	Males to 100 Females.	SEX.	of each Sex to Total of both Sexes.	1874 Represented by Births in 1877.	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White.	Black,	Mu- latto.	In- dian.	Unk.
		Total		25,140	2.43	613	605	1	8		
<b>7</b>	ا ا	Males	50,74	13,095	2.37	810	307	1	2		
Lapeer	103 {	Females .	49.26	12,045	2.50	801	297		4	ļ	
	į	Unknown		<b> </b>		1	1				
	1 1	Total		5,031	8,24	163	141		1	21	
Leelanaw	123	Males	55.21	2,692	3.34	90	76		1	13	
	{	Females.	44.79	2,839	8.12	73	65			8	
	l 1	Total		46,084	1.76	813	810	2	1		
Lenawee	120	Males	54.49	23,256	1.90	443	440	2	1		
	(	Females.	45.51	22,828	1.62	870	370				<b> </b>
	1	Total		20,329	1.97	400	400			<b></b>	
Livingston	129	Males	56.25	10,569	2.13	225	225				
	(	Females.	43.75	9,760	1.79	175	175				ļ
		Total		693	7.88	55	54				1
Mackinac	157	Males	61.11	359	9.19	33	33				
MECKINEC	1 16/ 1	Females.	88.89	839	6, 19	21	21		 		
		Unknown				1					1
	1	Total		28,305	2.48	701	701			<u>.</u>	
Macomb	114	Males	53.21	14,367	2.60	878	873				
		Females .	46.79	13,933	2.35	328	<b>32</b> 8				<b> </b>
	1 ,	Total		8,471	4.46	878	377			1	
Manistee	93 {	Males	48.15	4,792	8,80	182	182				
	) (	Females.	51.85	3,679	5.33	196	195		 	1	
	1 (	Total		504	6.75	84	84				
Manitou	162	Males	61.76	275	7.64	21	21				
		Females .	33.24	229	5.68	13	13				
	] [	Total		21,946	3.18	698	698				 
Marquette	115	Males	53.44	12,893	2.89	873	873				
		Females.	46.56	9,053	8,59	325	325				
,	] (	Total		5,361	2.76	148	148				
¥aa-		Males	55.78	2,971	2.76	82	82				
Mason	126	Females.	44.22	2,390	2.72	65	65				
	1 1			· .		1	1				
	i i	Unknown									
1	,	Unknown Total		9, 132	2,97	271	271				
Mecosta	124		55.85	9, 132 4,874	2,97 3.06						

a For townships from which no returns of births were received, see Table XXI.

TABLE VI.—Continued.—Births by Counties, by Sex, and by Color.

	Births,—		Per Ct. of Births	Popula- tion in	Per Ct. of Births	Con	OR,—CH	ILDRE	Bor	N IN 3	 377.
COUNTIES.	Males to 100 Females.	SEX.	of each Sex to Total of both Sexes.	1874 Represented by Births in 1877.	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White.	Black.	Mu- latto.	In- dian.	Unk.
		Total		3,248	2.06	67	67				
Menominee.	116	Males	53.78	2,054	· 1.75	86	36				
		Females.	46.27	1,194	2.60	31	81				
	i 1	Total		4,765	2.14	102	102			·	
Midland	104	Males	56.98	2,503	2.01	52	52				
		Females.	49.02	2,172	2.30	50	50		•••••		
		Total		606	5.61	34	84	·			
Missankee	62 {	Males	88.24	395	3.29	13	13				
	(	Females	61,76	211	9.95	21	21				
	!	Total		30,111	2.30	692	691	1			
Monroe	102	Males	50.43	15,302	2,28	849	348	1			
		Females	49.57	14,809	2,32	843	343				
	1 1	Total		20,815	2,20	458	453		1		4
<b>3</b> 641	97	Males	49.23	11,311	1.99	225	222		1		2
Montcalm	"1	Females	50.77	9,504	2.44	232	230				9
	•	Unknown		• • • • • • • • • • • • • • • • • • • •		1	1				
	(	Total		19,375	2.01	389	389				
35		Males	51.80	10,761	1,87	201	201				
Muskegon	107	Females	48,20	8,614	2.17	187	187				
		Unknown				1	1				<b></b> .
	1 (	Total		8,758	2.81	246	246				
Newaygo	118	Males	54.07	4,879	2.73	133	133				
		Females.	45 93	3,879	2.91	118	113				
	1	Total		38,082	1.68	640	637	2	1		
		Males	48 42	19,446	1.58	307	306	1			
Oakland	94	Females.	51.58	18,636	1.75	827	325	1	1		
		Unknown				6	6				
		Total	<i></i>	8,360	2,79	233	233				
_	Ì	Males	49.57	4,581	2.51	115	115				
Oceana	98 -	Females.	50.48	8,779	8,10	117	117			<b> </b>	
		Unknown				1	1				
Ogemawb											
-		Total		2,406	8.08	74	71		1	2	
Ontonagon	118	Males	54,05	1,276	8.18	40	39			e ]	
	1 1	Females	45,95	1,180	8.01	84	32		1	. 1	
	1 '	·	1	1 -,	1			1		, -	

a For townships from which no returns of births were received, see Table XXI. b County clerk says no returns of births from supervisors for 1877. e "Half-breed."

# BIRTHS BY COUNTIES, BY SEX, BY COLOR.

TABLE VI.—Continued.—Births by Counties, by Sex, and by Color.

					· · · ·		, ,,	,,	09	0000	•
	Births,—		Per Ct. of Births	Popula- tion in	Per Ct. of Births	Cor	or,—Ch	ILDRE	BOR	n in ]	877.
COUNTIES.	Males to 100 Females.	Sex.	of each Sex to Total of both Sexes.	1874 Represented by Births in 1877.	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White.	Black.	Mu- latto.	In- dian.	Unk.
		Total		6,216	4.39	273	278				
Osceola	107	Males	51.65	3,491	4,04	141	141				
		Females	48,35	2,725	4.84	182	132				
	1 1	Total		238	4.62	11	11				
Otsego	57 {	Males	36.36	162	2.47	4	4		 		
	(	Females	68,64	76	9.21	7	7			ļ	
	1 1	Total	•	29,929	3.16	947	987	8	1		6
Ottawa	117	Males	53.92	15,789	3.22	509	502	8		<b> </b>	4
O 6 6 8 6	l ''' Ì	Females .	46,08	14,140	3,08	435	433		1	ļ	1
	(	Unknown				8	2				1
	1	Total		896	8.15	78	73				
Presque Isle.	83	Males	45.21	483	6.83	83	88				
	1	Females	54,79	413	9.69	40	40				
	!	Total		276	1.81	5	5				
Roscommon.	150	Males	60.00	187	1,60	3	3			. <b></b>	
	(	Females	40.00	89	2.25	2	2				
	1	Total		48,409	2.85	1,378	1,364	2	4	8	
Saginaw	90	Males	47.49	25,96S	2.51	653	647		2	b 4	
CARLINA	"	Females	52.51	22,441	8.22	722	714	2	2	4	
	l	Unknown				8	3				
	ĺ	Total		16,292	3.07	500	500				
Sanilac	104	Males	51.00	8,652	2.95	255	255			ļ	
		Females	49,00	7,640	8.21	245	245		•••••		
	1	Total	•	301	4.82	13	13				
Schoolcraft.	160 {	Males	61.54	· 195	4.10	8	8				
	(	Females	38,46	108	4.72	5	5				
		Total		21,773	2.22	484	484		•••••		
Shiawassee.	100	Males	50.00	11,265	2.15	242	242	·			
		Females	50,00	10,508	2,30	242	242				
	1 1	Total		40,688	2.58	1,050	872		•		178
St. Clair	97	Males	49,19	21,181	2,43	515	420				95
·· vmii	" i	Females	50.81	19,507	2.73	532	452				80
		Unknown	<b></b>			8					3
	•		-	•	-	•	-			•	

<sup>•</sup> For townships from which no returns of births were received, see Table XXI.
• Includes 1 "Half-breed."

TABLE VI.—CONTINUED.—Births by Counties, by Sex, and by Color.

	Births,—		Per Ct. of Births	Popula- tion in	Per Ct. of Births	Corc	ъ,—Сн	LDREN	Born	IN 18	n.
COUNTIES.	Males to 100 Females.	SEX.	of each Sex to Total of both Sexes.	1874 Represented by Births in 1877.	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White.	Black,	Mu- latto.	In- dian.	Unk.
	ſ	Total		25,906	1.69	438	436	1	1		
St. Joseph	105	Males	51.14	13,267	1.68	224	223		1		
	(	Females	48,86	12,639	1,69	214	213	1			
		Total		16,998	3.14	533	533				
Tuscola	109	Males	52,17	8,950	3.11	278	278			•••••	
	{	Females	47,83	8,048	3.17	255	255				
	j 1	Total		29,156	1.76	514	504	7	8		
Van Buren	114	Males	53.31	15,062	1.92	274	270	2	2		
	ļi	Females	46.69	14,094	1.70	240	234	b 5	1		
		Total		88,723	1.67	647	634	7	2		4
Washtenaw.	102 {	Males	50,39	19,553	1.67	326	819	b 4	2		1
	j (	Females	49.61	19,170	1.67	321	815	ь 8			3
	1	Total		144,903	3.27	4,736	4,698	25	11		2
Wayne	118	Males	54.21	72,306	3.54	2,563	2,546	c 14	3	•••••	•••••
· · · · · · · · · · · · · · · · · · ·		Females	45.79	72,597	2.98	2,165	2,146	11	8		
		Unknown			····	8	6				2
	1	Total	••••	2,812	8,95	111	111				
Wexford	71	Males	41.44	1,633	2.82	46	46		•		•••••
	] (	Females	58.56	1,179	5.51	65	65				

For townships from which no returns of births were received, see Table XXI.
 1 "Colored."
 Includes 2 "Colored."

### BIRTH-RATE OF NATIVE AND FOREIGN-BORN INHABITANTS.

The birth-rate in this State in 1877 cannot be ascertained from any available statistics. The evidence drawn from a comparison of the population in 1870 with the births in 1877 would not be of much value in studying this subject, as there would doubtless be various changes in the population during a period of seven years; and the census of Michigan for 1874 does not furnish any statistics of the native or of the foreign-born inhabitants.

Table VII. furnishes the best data we have in this Report for studying the comparative birth-rate of the native and of the foreign-born inhabitants. 1877, as shown by this table, the parents of 45.73 per cent. of the children born were both native-born, and of 34.61 per cent. the parents were both foreign-born. In the population of this State in 1870, aged 15 to 45 years, 69.74 per cent. were native-born, and 30.25 per cent. were foreign-born; and by comparing these statements with those in Table VII. it will be seen that the proportion of births among the native-born parents is very much less than the proportion of the native-born inhabitants, and that the proportion of births

among the foreign-born parents is much greater than the proportion of the foreign-born inhabitants. These facts indicate that the birth-rate among the foreign-born inhabitants is greater than among the native-born.

TABLE VII.—Exhibiting, by Sex, by Number, and by Per Cent. of Total, the Parent-Nativity of Children Born in Michigan during the Year 1877, according to the Returns.

			Ton	TAL BI	RTHS, 1	377.		
NATIVITY OF PARENTS OF		Nex	IBER.		P	ER CENT	. OF TOTAL	•
CHILDREN BORN, 1877.	Total.	Males.	Females.	Unk.	Total.	Males.	Females.	Unk.
All Nativities	33,395	17,227	16,109	59	100,00	100.00	100.00	100.00
Both Parents Native	15,270	7,926	7,824	20	45.73	46.01	45.47	33.90
Both Parents Foreign	11,557	5,936	5,600	21	34.61	84.46	34.76	85.59
Foreign Father and Native Mother	8,635	1,861	1,770	4	10.88	10.80	10.99	6.78
Foreign Mother and Native Father	1,948	1,011	935	2	5.83	5.87	5.80	3.8
Unknown Mother, Father Native	174	91	83		.52	.53	.52	<b> </b> .
Unknown Mother. Father Foreign	121	55	65	-1	.36	.32	.40	1.69
Unknown Father, Mother Native	193	103	89	1	.58	.60	.55	1.69
Unknown Father, Mother Foreign	94	48	46	l	.28	.28	.29	İ
Both Unknown	403	196	197	10	1.21	1.14	1.22	16.93
One or Both Native	21,220	10,992	10,201	27	63.54	63.81	66.32	45.76
One or Both Foreign	17,355	8,911	8,416	28	51,97	51.73	52.24	47.46

EXHIBIT F.—Parent-Nativity of Children Born in Michigan during each of the Years 1872 to 1877, inclusive, according to the Returns.

NATI		187	72.	18	73.	18	74.	18	75.	18	76.	187	77.
OF CHI BOI		Num- ber.	Per Cent. of Total.	Num- ber.	Per Cent. of Total.	Num- ber.	Per Cent. of Total.	Num- ber.	Per Cent. of Total.	Num- ber.	Per Cent. of Total.	Num- ber.	Per Cent. of Total.
All Nativitie	8	27,993	100.00	34,608	100.00	81,151	100.00	31,958	100.00	84,235	100.00	83,895	100.00
Both Parent	s Native	12,907	46.11	16,202	46,81	18,341	42.83	14,226	44.51	15,551	45.42	15,270	45,73
Both Parent Foreign Fat		9,721	84.73	11,946	34.52	10,517	33.76	11,120	84.80	11,901	34,76	11,557	34.61
tive Mothe	r	2,599	9.28	3,388	9.79	8,130	10,05	3,246	10.16	8,587	10.48	3,635	10.88
tive Fathe	r	1,359	4,85	1,941	5,61	1,680	5,89	1,727	5.40	1,868	5,46	1,948	5.88
One or Both	Unknown	1,407	5.03	1,131	8.27	2,483	7.97	1,639	5.13	1,328	8.88	985	2,95
One or Bot	h Parents			a	22.01					01 000			
One or Bo		16,865		21,531		18,151		19,199		21,006		20,658	62,44
Foreign		13,679	48.97	17,275	49.91	15,327	49,20	16,093	50.36	17,856	50.70	17,140	51.88
[	Native							16,309	51.03	17,703	51.71	17,892	52,06
Father	Foreign							14,812	46.85	15,721	45.92	15,318	45.85
{	Unknown			•				837	2,62	811	2,37	690	2.07
ſ	Native							17,696	55.84	19,847	56.51	19,098	57.19
Mother	Foreign							12,961	40.56	13,858	40.46	18,599	40.73
l	Unknown					•••••		1,811	4.10	1,035	8.02	698	2.09

a Excluding cases where nativity of either parent is unknown.

TABLE VIII.—Exhibiting, for the State and Counties of Michigan, by Sex, the Total Number of Children Born during the Year 1877, and the Parent-Nativity of such Children, so far as stated in the Returns. (Still-births included.)

			N.	TIVITY	OF PAR	ENTS O	FCHIL	DREN	Born,	—1877.	
STATE	Sex.	Children Born,	Both	Both	Father	Foreign Mother	Mot Ur Fat		U	HER NK.	known.
COUNTIES.		1877.	Native.	Foreign.	and Native Mother.	and Native Father.	Na- tive.	For-	Na- tive.	For-	Both Unknown
	(Total	33,395	15,270	11,557	3,635	1,948	174	121	193	94	400
*	Males	17,227	7,926	5,936	1,861	1,011	91	c 55	103	48	4 19
Stateb	Females	16,109	7,324	5,600	1,770	935	83	• 65	89	46	r 19
	Unknown	59	20	21	4	2		1	1	 	10
	Total	44	11	20	7	4			1	1	
Alcona	Males	29	7	13	4	4	<b></b>		1		
	Females .	15	4	7	3				<u> </u>	1	<b> </b>
	(Total	773	422	196	92	44	15	<b> </b>	3		
Allegan	Males	404	211	110	54	23	6				<b> </b>
	Females	369	211	86	88	21	9	<b></b>	8		
	Total	160	27	100	18	13	<b> </b>	<b> </b>	1		
Alpena	Males	86	17	51	11	7					
	Females.	74	10	49	7	6			1		1
	Total	126	53	35	19	13	1		ļ		
Antrim	Males	68	82	19	8	7					
•	Females.	58	21	16	n	6	1	<b></b>	ļ		
	Total	57	9	27	4	8		1	ļ. <b></b> .		1
Baraga	Males	27	8	15	3	2	<b> </b> -	<b></b>	ļ		ŀ
	Females	30	6	12	1	1	<b></b> .	g l			
	Total	547	421	50	47	18		2	5		ł
Barry	Males	294	231	26	20	10	ļ. <b>.</b>	•••••	4		
	Females.	253	189	24	27	8	<b> </b> -	2	1		
	Unknown	1	1	ļ	<b> </b>						
	Total	893	209	468	135	74	2	3			
Bay	Males	486	105	253	66	40		2			
	Females.	427	104	215	69	34	2	1			
	Total	82	48	16	12	6			•••••		
Benzie	Males	44	29	7	5	,3			•••••		
	Females	38	19	9	7	8					

<sup>\*</sup>Wative" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

For counties and townships not represented by returns of births, see Table XXI.

Includes 3, mother "America."

Includes 7, "America," and 1, mother "America."

Includes 11, "America,"

Includes 11, "America,"

Mother "America."

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

			N.	TIVITY	OF PAI	RENTS O					
		Children			Foreign	Foreign		THER NR.		HER KK.	OWn.
COUNTIES.	Sex.	Born, 1877.	Both	Both	Father and	Mother	Fat	her.	Mot	her.	Jukn
		1011.	Native.	Foreign,	Native Mother.	Native Father,	Na- tive.	For- eign.	Na- tive.	For-	Both Unknown.
	Total	609	369	131	56	29	1		4	5	14
Berrien	Males	284	177	63	20	15	1		1	1	6
	Females .	325	192	68	36	14			3	4	5
1	Total	504	386	57	23	23	3	1	10		1
	Males	259	209	25	6	11	2	1	5		
Branch	Females .	244	176	32	17	12	1		5		1
	Unknown	1	1								
1	Total	581	390	88	45	25	12	4	4		13
	Males	309	206	53	21	12	т	2			5
Calhoun	Females .	271	183	35	24	13	5	2	4		5
1	Unknown	1	1								
- 1	Total	405	328	24	28	16		1	8		
Cass	Males	199	166	10	12	5		1	5		
	Females	206	162	14	16	11			3		
-	Total	114	52	31	17	9	1		2		2
	Males	56	22	17	11	5			1		
Charlevoix	Females.	57	30	14	6	4	1		1		1
	Unknown	1									1
-	Total	94	20	47	19	5			2		1
Cheboygan	Males	49	8	26	12	3					
	Females.	45	12	21	7	2			2		1
1	Total	33	13	9	6	4			1		
Chippewab	Males	14	6	1	4	2			1		
	Females .	19	7	8	2	2					
1	Total	43	22	8	6				1		1
Clare	Males	21	11	4	3	2			1		
	Females .	22	11	4	3	3					3
(	Total	508	314	65	58	83	1	1	4		9
Olleton	Males	260	174	32	31	16	1		4		9
Clinten	Females.	246	170	33	25	17		1			
	Unknown	2			2						
	Total	148	21	94	18	10	2	1	2		
Delta	Males	61	11	36	8	4			2		
	Females .	87	10	58	10	6	2	1	-55.3		

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" wore compiled with the "Unknown."

b For townships not represented by returns of births, see Table XXI.

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

				<del> </del>			, Mar	THER	D	117 W.T.	
		Children		l	Foreign	Foreign		IK.		HER KK.	a a
COUNTIES.	SEX.	Born, 1877.	Both	Both	Father and	Mother and	Fat	her.	Mot	ber.	1
		1011.	Native.	Foreign.	Native Mother.	Native Father.	Na- tive.	For- eign.	Na- tive.	For-	Both Unknown.
	Total	524	447	13	22	20	6	2	5		
aton	Males	272	233	6	9	12	8	1	1		
{	Females_	252	214	7	13	8	3	1	4		
ſ	Total	105	78	17	6	4				<b> </b>	ļ
mmetb	Males	56	40	9	5	2					
muet	Females.	48	37	8	1	2					
į	Unknown	1	1								
ſ	Total	640	377	93	78	68	9	1	5	2	
enesee	Males	311	179	45	48	31	4		5	1	1
ł	Females.	329	198	48	35	87	5	1		1	1
ſ	Total	3	2	. 1							
ladwinb	Males	1	1						<b></b>	<b> </b>	ļ
{	Females .	2	1	1					<b> </b>	<b> </b>	
(	Total	171	92	32	25	19			3		ļ
Grand Traverse	Males	96	55	16	14	11					<b> </b>
ł	Females.	75	37	16	11	8			8		<b> </b>
ſ	Total	419	307	42	49	17	1	•••••	4		1
	Males	211	153	23	. 17	9	1		8		
Gratiot	Females.	207	153	19	25	8			1		
{	Unknown	1	1								<b> </b>
1	Total	478	382	19	81	19	6	1	2	1	
	Males	220	1 178	l j 9	18	11	8	1	1	 	l
Hillsdale	Females.	252	208	10	18	8	8		1	1	1
[	Unknown	1	1			 					<b> </b>
1	Total	895	35	750	86	22				2	<b></b>
	Males	447	21	877	37	11				1	l
Houghton	Females.	441	14	386	49	11				1	<b> </b>
	Unknown	7		7							I
ſ	Total	485	36	360	50	83		2		3	
Huron	Males	246	22	187	25	11		1	<b></b>		<b></b>
	Females_	239	14	173	25	22		1		3	
	Total	526	385	52	51	33	)		2		
<b>.</b>	Males	279	205	25	26	18	1		2		
Ingham	Females.	244	179	25	25	15			<b></b> .	<b></b>	
	Unknown	3	1	2			l		ŀ	1	

<sup>\*&</sup>quot;Rative" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

For townships not represented by returns of births, see Table XXI.

<sup>5-1877.</sup> 

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

	1	1		Both Both F							
	ł	Children		I	Foreign	Foreign		THER NK.		HER FE.	E.
COUNTIES.	SEX.	Born,	Both	Both	Father	Mother	Fat	her.	Mot	her.	ä
		1377.	Native.	Foreign.	Native Mother.	Native Father.	Na- tive.	For-	Na- tive.	For-	Both Unknown.
	Total	635	488	78	71	89	8	1	8	1	
<b>-</b>	Males	883	232	41	81	20	2	1	1	1	
Ionia	Females .	299	205	37	36	19	1		1	<b></b>	ļ
	Unknown	8	1		1				1		
	Total	127	26	78	17	6					ļ
Iosco	Males	68	18	89	7	4	 				ļ
	Females.	59	8	89	10	9					Ì
	Total	266	168	49	28	17		1	,	İ	
Tankalla	Males	145	89	26	18	9		1	2		
Isabella	Females.	120	79	23	10	8					
	Unknown	1						<b> </b>	ļ	<b> </b>	1
Isle Royal	ь										
	Total	771	514	124	69	52	8	1	1	1	•
Jackson	Males	388	246	72	84	32	1	1		1	1
	Females.	883	268	52	85	20	2		1		
!	Total	611	382	125	65	18	2		6	1	1
Kalamazoo	Males	319	218	54	36	6	1		2	1	
	Females.	292	169	71	29	12	1		4	<b> </b>	
	Total	47	24	11	4	5	1		2		
Kalkaska	Males	21	11	4	3	2	1		<b></b>		
	Females.	26	18	7	1	8			2	•••••	
	Total	1,689	750	612	168	94	6	19	12	5	
Ton 4	Males	859	394	298	92	50	8	5	6	8	•
Kent	Females_	824	354	811	76	44	8	14	6	2	
	Unknown	6	2	8							l
	Total	297	8	242	84	2	ļ	9			
Kowanne—	Males	158	6	122	22	1	•••••	5			
Keweenaw	Females.	188	2	120	12	1		8			
	Unknown	1		•••••	<b></b> :.			1			
	Total	69	49	12	9	4					
Lake	Males	40	24	4	7	8					
	Females _	29	18	8	2	1					
	Total	612	263	181	100	55	7	1	2		
	Males	810	132	93	49	28	4	1	1		
Lapeer	Females .	801	131	88	51	27	3		1		••••
	Unknown	1									l

 <sup>&</sup>quot;Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."
 No returns from county clork. Includes 1 "America" and 1 mother "America."

### TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

COUNTIES.	SEX.					1	1			HER		HEE	p
	1.0.0	Children			Foreign	Foreign		K.	-	KK.	non		
COUNTIES.	SEX.	Born, 1877.	Both	Both	Father and Native	Mother and Native	Fat	her.	Mot	her.	Both Unknown.		
		0.50	Native.	Foreign.	Mother.	Father.	Na- tive.	For- eign.	Na- tive.	For- eign.	Both		
	Total	163	51	73	23	11			4				
Leelanaw	Males	90	26	40	14	6			3				
	Females .	73	25	33	9	5			1				
	Total	813	562	132	59	41	8	3	2	1	0 0		
Lenawee	Males	443	304	71	34	23	7	1		1	116		
	Females .	370	258	61	25	18	1	2	2		18		
	Total	400	292	41	37	26	2		1				
Livingston	Males	225	165	26	17	15	1		1				
	Females .	175	127	15	20	11	1						
	Total	55	37	5	7	2			2				
	Males	33	25	2	4		*****		1				
Mackinacb	Females.	21	11	3	3	2			1				
	Unknown	1	1										
	Total	701	297	251	110	39		1	3	******			
facomb	Males	373	152	126	68	25			2		****		
	Females.	328	145	125	42	14		1	1				
	Total	378	72	244	40	15				4	1		
fanistee	Males	182	42	116	17	3				2	15		
	Females.	196	30	128	23	12				2			
	Total	34	2	25	3	2	1						
fanitoub	Males	21	1	15	2	1	1						
	Females.	13	1	10	1	1							
	Total	698	58	567	52	15			2	1	1		
Marquette	Males	373	35	298	28	8			2	1			
40011011111	Females .	325	23	269	24	7							
	Total	148	55	46	16	13	5	2	1		1		
	Males	82	32	27	9	5	4						
Mason	Females.	65	23	18	7	8	1	2	1				
	Unknown	1	-	1				1					
	Total	271	142	76	26	23		2					
Mecosta	Males	150	83	39	15	11		1					
	Females .	121	59	37	11	12		1					
	Total	67	10	42	7	5		1					
Manuface		36	4	23	5								
Menominee b	maies	30	6	19	9	1		1	******	*****			

<sup>&</sup>quot;Mative" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

To townships not represented by returns of births, see Table XXI.

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

		Children						THER		HER IX.
COUNTIES.	SEX.	Born, 1877.	Both	Both	Foreign Father and	Foreign Mother and	_	her.	Mot	
			Native.	Foreign.	Native Mother.	Native Father.	Na- tive.	For- eign.	Na- tive.	For- eign.
	[Total	102	55	23	15	7			2	
(idland	Males	52	22	14	10	5			1	
	Females	50	83	9	5	2			1	
	Total	84	9	18	8	2	2			
issaukee	Males	13	2	7	8		1			
	Females	21	7	11		2	1		•••	
	Total	692	450	142	63	82		1	2	1
onroe	Males	849	229	70	84	15		1	1	ļ
	Females.	843	222	72	99	17			1	1
	[Total	458	286	87	48	32	1	1	2	
	Maies	225	144	44	22	18		1	1	
ontcalm	Females	232	141	43	26	19	1		1	
	Unknown	1	1						<b> </b>	
	[Total	389	121	195	50	17		8		1
··· - • · · · · · · · · · · · · · · · ·	Males	201	60	97	32	9		2	<b> </b> -	1
uskegon	Females	187	61	97	18	8		<b>•</b> 1		ļ
	Unknown	1		1						
	Total	246	144	40	88	16	8		2	
ewaygo	Males	133	77	27	18	6	2	<b> </b>	1	
	Females	113	67	13	20	30	1		1	<b></b>
	[Total	640	404	98	62	60	10	1	8	
. 1. 1	Males	807	191	45	81	82	6	<b> </b>	1	
akland	Females	827	209	52	81	28	4	1	2	
	Unknown	6	4	1			ļ			
	[Total	233	160	32	16	15	4	1	2	1
	Males	115	81	17	7	4	2	1	1	1
ceana	Females.	117	78	15	9	11	2	ļ	1	<b> </b>
	Unknown	1	1					ļ		
gemaw	d									
	[Total	74	9	42	16	5		ļ	1	1
ntonagon	. Males	40	6	21	9	4			ļ	
	Females.	84	8	21	7	1		l	1	1

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

b Mother "America."

c "America."

d County clerk says no returns of births from supervisors for 1877.

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

		Children			Foreign	Foreign		THER NK.		MER.	OWn.
COUNTIES.	Sex.	Born, 1877.	Both	Both	Father	Mother	Fat	her.	Mot	her.	Taka
		1011.	Native,	Foreign.	Native Mother.	Native Father.	Na- tive.	For- eign.	Na- tive.	For- eign.	Both Unknown.
	Total	273	139	87	24	22				1	
Osceola	Males	141	72	44	11	13				1	
	Females.	132	67	43	13	9					
	Total	11	5	6							
Otsegob	Males	4	3	1							
77	Females .	7	2	5							
	Total	947	307	469	108	42	1	7	1	1	11
	Males	509	163	254	56	99	1	6	1		c 6
Ottawa	Females	435	144	213	52	19		1		1	d 5
	Unknown	3		2		1					
	Total	73	4	61	4	1		3			
Presque Isleb.	Males	33	2	27	3	1	2201.2				
	Females .	4	2	34	1			3			
	Total	5	2	0.000	3				1.00	1 10 1	
Roscommonb	Males	3	1		2						
200011110111111	Females.	2	1		1					3.0	
	Total	1,378	424	619	208	93	5	3	5		21
	Males	653	194	296	96	52	2		3	200	10
Siginaw	Females .	722	229	323	112	41	3	3	2		9
		10,50		929	112	**			-		2
	Unknown	3	1				******				
	Total	500	51	326	67	47		2	4	2	1
Sinilac	Males	255	24	171	27	27		2	3	1	*****
	(Females.	245	27	155	40	20			1	1	1
	Total	13	6	7				******			
Schoolcraftb	Males	8	3	5			*****				
	Females.	5	3	2				*****			
Louis III	Total	484	345	62	51	22	1		2		1
hlawassee	Males	242	182	30	17	13					
	Females.	242	163	32	34	9	1		2		1
	Total	1,050	244	483	168	105	13	13	7	4	13
St. Clair	Males	515	124	242	75	52	7	4	3	2	6
	Females.	532	118	240	93	53	6	9	4	2	7
	Unknown	3	2	1							

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

	1	Children Born, 1877.	NATIVITY OF PARENTS OF CHILDREN BORN,-1877.										
			Both Native.	Both	Foreign Father and	Mother and	MOTHER UNK.		FATHER UNK.		Jaknown.		
COUNTIES.	SEX.						Father.		Mother.				
		2011.		Foreign.	Native Mother.	Native ather.	Na- tive.	For- eign.	Na- tive.	For-		1 1 7 8 5 160 85 72 3	
[	Total	488	382	75	24	6			1				
St. Joseph	Males	224	171	36	15	1			1		<b> .</b>	••••	
	Females.	214	161	89	9	5					<b> .</b>		
	Total	533	287	149	82	62			2		Ì	1	
Tuscola	Males	278	124	75	47	80	<b> </b>		1			1	
į	Females.	255	113	74	85	32			1	<b></b> -			
(	Total	514	396	40	43	82	1	1	1				
Van Buren	Males	274	209	25	21	17	1	ļ	1	i			
(	Females _	240	187	15	23	15		1					
1	Total	647	299	181	86	26	24	15	8	1	l	7	
Washtenaw	Males	826	157	92	87	11	11	ь 10	5	1	•	8	
	Females.	821	142	89	49	15	18	4 5	8		۰	5	
{	Total	4,736	1,303	2,427	493	246	10	8	36	58		160	
Wayne	Males	2,563	717	1,291	274	140	4	8	21	28	ſ	85	
	Females.	2,165	586	1,133	218	105	6	4 5	15	25	E	72	
	Unknown	8		8	1	1						8	
Wexfordh	Total	111	59	29	17	5						•••	
	Males	46	23	11	11	1						•••	
į	Females.	65	36	18	. 6	4		1	•••••		•••		

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

b Includes 2 males, mother "America."

c Includes 1 male "America."

d Includes 1 female, mother "America."

e Includes 2 female "America."

s Includes 2 males "America."

a Includes 3 females "America."

b For townships not represented by returns of births, see Table XXI.

#### TWIN CHILDREN.

In the year 1877, according to the returns, 367 pairs of twins were born in Michigan,—115 pairs of males, 115 pairs of females, 136 pairs of one of each sex, and 1 pair of unknown sex.

Table IX. shows, by sex, the number of pairs, the number of twin children, and the proportion of the sexes, by months arranged in order, those first in

which were born the greatest number of pairs of twins.

TABLE IX.—Exhibiting, by Sex, the Number of Pairs, and the Number of Twin Children Returned as having been Born in Michigan during the Year 1877, by Months Arranged in Order by Number; also, by Pairs and by Individuals, the Number of Males to 100 Females.

	YEAR		BER O	TWIN 1877.	DREN,	Number of Pairs of Twins, 1877.							
and Months, 1877,		Total.	Malos.	Fe- males.	Un- kno'n	Males to 100 Fe- males.	Total.	Males.	Fe- males.	One of each Sex.	Un- kno'n.	Males to 100 One of each Sex.	Males to 100 Fe- males
Year	r, 1877	734	366	366	2	100	867	115	115	136	1	84	100
than the . of Twin	Jaly	90	43	47		91	45	13	15	17		76	87
	December	76	42	82	2	131	88	18	8	16	1	81	163
	April	68	43	25		172	84	15	6	13		115	250
	September	66	80	36		83	<b>8</b> 3	7	10	16		44	70
Ave	rage per month	61.0	80.8	80,5	.02	100	80.5	9.5	9.6	11.8	.1	84	100
	March	60	23	87		62	30	7	14	9		78	50
ē.	November	60	30	30		100	80	8	8	14		57	100
	May	56	28	28		100	28	9	9	10		90	100
Loss than the Av. No.	August	56	27	29		93	28	7	8	13		54	88
	October	56	26	30		87	28	9	11	8		118	82
	June	52	28	29		79	26	8	11	7		114	78
	January	46	26	20		180	23	10	7	6		167	143
	Pebruary	46	23	23		100	23	8	8	7		114	100
	Unknown	2	2				1	1					

<sup>\*</sup> Excluding 1 pair in unknown month.

Table X. shows, by parent-nativity and sex, the number of pairs of twins in 1877, and the per cent. of twins of each parent-nativity to total of all nativities. Of all the twins born in 1877, 45.50 per cent. were born of parents who were both native-born, and 34.33 per cent. were born of parents who were both foreign-born. These propositions are very similar to those shown in Table VII., preceding, for all children born.

TABLE X.—Parent-Nativity of Twins Returned as having been Born in Michigan during the Year 1877.

				PAIR	of T	'WINS,	1877.			
NATIVITY OF PARENTS OF TWINS, 1877.		1		·.			VITY TO	F EACH TOTA	L OF A	
01 2 11110 2111	Total.	Males.	Fe- males.	One of Each Sex.	Un- kno'n,	Total.	Males.	Fe- males.	One of Each Sex.	Un- kno'n.
All Nativities	367	115	115	136	1	100.00	100.00	100.00	100.00	100,00
Both Native	167	48	53	66		45.50	41.74	46.09	45.53	
Both Foreign	126	41	35	50	 	34,83	35.65	30,43	36.76	
Foreign Father and Native Mother	39	17	13	. 8	1	10.63	14.78	11.30	5.88	100.00
Foreign Mother and Native Father	22	6	7	9		5,99	8.22	6.09	6.62	
Unknown Mother, Father Native	1 4	1	3		<b> </b>	1.09	.87	2.61		
Unknown Mother, Father Foreign										
Unknown Father, Mother Native	1	ļ	1		<b></b> .	.27		.87		<b> </b>
Unknown Father, Mother Foreign	2	ļ	1	1	] 	.54	ļ 	.87	7.85	
Both Unknown	6	2	2	2		1,63	1.74	1.74	1.47	ļ
One or Both Native	233	72	77	88	1	63.49	62,61	66,96	61.08	100.00
One or Both Foreign	189	64	56	63	1	51.50	55.65	48.70	50.00	100.00

EXHIBIT 5.—By Nativity and by Color of Mothers, the Number and Proportion of Twins Returned as having been Born in Michigan during the Years 1875 to 1877, inclusive.

		1875.			1876.			1877.	
NATIVITY AND COLOR OF MOTHERS OF TWINS.	Pairs of Twins.	Whole Number of Mothers, In- cluding those of Twins,	Per Ct. of Births of Twins to all Mothers.	Pairs of Twins.	Whole Number of Mothers, In- cluding those of Twins.	PerCt. of Births of Twins to all Mothers.	Pairs of Twins:	Whole Number of Mothers, In- cluding those of Twins.	Per Ct. of Births of Twins to all Mothers.
Mothers of all Colors and of all Nativities	370 174 184 12	17,510	1.17	428 249 170 9	33,791 19,086 13,679 1,026	1.30	367 207 150 10	33,028 18,891 13,449 688	1.10
White Black Mulatto Indian Unknown	365 1 2	31,147 112 89 136 102	1.17 .89 2,25	424 1	33,273 139 88 139 152	1.27 .72 1.44 .66	360 1 2 4	32,445 101 87 128 267	1.11 .99 1.56
Black and Mulatto	3	201	1.49	1	227	.44	1	188	.53

TABLE XI.—Parent-Nativity of Twins Returned as having been Born in Michigan during the Year 1877,—distinguishing between Parents who were Natives of the same State and those Born in Different States or Countries.

	l			PAIR	8 OF 1	CWINS,	1877.			
NATIVITY OF PARENTS		1	TUMBRI	a.			VITY TO	F EACH TOTAL	L OF A	
OF TWINS, 1877.	Total.	Males.	Fe- males.	One of Each Sex.	Un- kno'n.	Total.	Males.	Fe- males.	One of Each Sex.	Un- kno'n
All Nativities	367	115	115	136	1	100.00	100.00	100.00	100.00	100.00
Same American State or Foreign Country	202		61 27			55,04 24.80				
Foreign Father and Native Mother	89	17	18	8	1	10.63	14.78	11.30	5.88	100.00
Foreign Mother and Native Father	22	6	7	9		5.99	5.22	6.09	6.62	•••••
Unknown Mother, Father Native Unknown Mother, Father Foreign	4	1	. 8			1,09	.87	2,61		
Unknown Father, Mother Native	1		1			.27		.87		
Unknown Father, Mother Foreign	9	ļ	1	] 1		.54		.87	.74	
Both Unknown	6	2	2	2		1.68	1.74	1.74	1.47	
Different States or Countriesa	152	52	47	53	1	41.42	45.22	40,87	88.94	140.0

a Includes "Different American States or Foreign Countries," "Foreign Fath Mother," and "Foreign Mother and Native Father," Compare with "Same Ame Foreign Country," and with same lines in Table XV.,—for still-born children.

TABLE XII.—Exhibiting, for the State and Counties, by Sex, the number of Pairs of Twins, the Number of Twin Children, and the Nativity of Parents of Twins Returned as having been Born in Michigan during the Year 1877. Nativity stated by Pairs of Twins.

			Ins.		NATI V	TITY O	F PAR	ENT	8 OF	Tw	ins,	1877.	•	
STATE		duals.	WI Jo	NA	FIVE.	For	EIGN.	ъ.	pr		THER NK.		HER K.	1
DKA	SEX.	Indivi	Pairs	E SE	Ħ	Same y.	rent	her ar	ther an	Fat	her.	Mo	her.	1
COUNTIES.		Number of Individuals.	Number of Pairs of Twins.	Both Parents from same State.	From Different States.	Both from Sar Country	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Native.	Foreign.	Native,	Foreign.	Both Habnown
	Total	734	867	87	80	115	11	39	22	4		1	2	1
	Males	366	115	b 92	a 26	d 38	. 3	117	6	1				E
State	Females	366	115	ь 30	1 23	3 81	4	13	17	3		g 1	. 1	k
	One of each		136	1 35	m 31	n 46	4	. 8	9				p 1	q
	Unknown	2	1					r 1						-
Alcona	.Males	2	1			1								
	Total	12	6	1	1	2		2						
	Males	9	3			1		2						
Allegan	Females	3												-
	One of each		3	1	1	1								
Alpena	.Males	2	1			1								
	Total	6	3	1	1	1								
Antrim	Males	3	1	1										-
Autrim	Females	3	1		1									-
3	One of each		1			1								-
	Total	4	2			1		***	****					1
Baraga	Males	2												-
Dalaga	Females	2												-
	One of each		2			1								0
	Total	16	8	4	2			2						-
Barry	Males	6	1	1										-
Dairy	Females	10	3		1			2						-
)	One of each		4	1 3	. 1						****			-

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

b Includes 2 pairs and 1 maie still-born, and 1 pair color unknown.

e Includes 2 pairs and 3 male still-born, and 3 pair color unknown.

f Includes 1 pair still-born, and one pair color unknown.

f Includes 1 pair still-born, and 1 pair illegitimate.

k Includes 1 pair and 2 females still-born, and 1 pair Indian.

Includes 2 females still-born.

Includes 2 females still-born.

Includes 1 pair and 2 females still-born.

Includes 2 pairs, 5 maies, and 1 female still-born.

Includes 2 pairs and 2 females still-born, and 1 pair color unknown.

Includes 4 pairs and 3 males still-born.

Includes 4 pairs and 3 males still-born.

Includes 4 pair and 3 males still-born.

Includes 4 pair and 1 pair black.

Color unknown.

			ins.		NATIV	VITY O	F PAI	RENT	S OF	TW	INS,	1877	
		uals.	T I	NA.	TIVE.	For	EIGN.	P	po		THER NK.	FAT	HER NK.
COUNTIES.	SEX.	divid	aira	ate.	l ta	He	nt	er ar	her.	Fat	ther.	Mot	her.
		Nunber of Individuals.	Number of Pairs of Twins.	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Native.	Foreign.	Native.	Foreign.
	[Total	22	11	1		7	1	2					
	Males	14	5			4		1					
Bay	Females	8	2				1	1					
	One of each		4	1		3							
Benzie	Males	2	1	b 1									
	Total	20	10	2	4	2		1					1
20000	Males	5	1			1							
Berrien	Females	15	6	1	2	1		1					61
	One of each		3	1	2								
	Total	16	8	4	2	2							
280	Males	11	4	2	2								
Branch	Females	5	1			1							
	One of each		3	2		1							
	Total	8	4			2	2						
	Males	2											
Alhoun	Females	6	2				2						
	One of each		2			0 2							
	Total	4	2		1	1							
`ass	Males	2	1		1								
	Females	2	1			1							
	Total	4	2	1		1							
W	Males	2											
heboygan	Females	2											
	One of each		2	• 1		1							
	Total	6	3		2			1					
	Males	8	1		1								
Clinton	Females	1											
C	One of each		1		4 1								
	Unknown	2	1					• 1					
Delta	.Males	2	1			1							

a "Native" includes only those born in the United States. Those cases in which the birthp'
was returned as "America" were compiled with the "Unknown."

a Includes 1 pair still-born.

a Includes 1 female still-born.

Color unknown.

		į.	wins.		VATIV			ENT			ns,		HEE	ì
	1	du di	Of T	NAT	IVE.	Гови	IGN.	pur.	bus.	Uz		Uz		-
COUNTIES.	SEX.	ndiv	airs	is tate.	put	me	Ħ.	other	her	Fat	her.	Mot	her.	l
		Number of Individuals.	Number of Pairs of Twins.	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Native.	Foreign.	Native.	Foreign.	The same of the same of
	[Total	8	4	2	1					1				ľ
	Males	3	1	1	1		<b> </b> .							Į.
Eaton	Femalcs	5	2		1		<b></b> .			1				l
	One of each		1	1										ļ
Emmet		2	1		1		ļ							١
	(Total	16	8	2	4		ļ	1	1					ļ
	Males	10	4		6.4		ļ							l
Gonesoe	Females	6	2	1				1						١
	One of each		2	1			<b></b> .		1					ı
	[Total	6	3	2	1		<u> </u>							١
Grand Traverso	 {	2	1	1										J
	Females	4	2	1	e 1									1
	Total	6	3	1	2									1
	Males	3	1		1									ı
Gratiot	Females	3	1	. 1										I
	One of each		1		1									1
	[Total	6	3		1				1					I
	Males	1												1
Hillsdale	Females	5	2		1									j
	One of each		1						1					1
	Total	14	7	1		5		1						1
	Males	6	1			1								
Houghton	Females	8	2	1		1								1
	One of each		4			3		1						
	(Total	6	3			1	1		1					1
Huron	Males	4	2			1	41							-
	Females	2	1						0 1					Ì
	Total	12	6	2	2			2						1
	Males	8	3	41	1			1						-
Ingham	Females	4	1		1									I
	One of each		2	1				1	111					1

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

Includes 1 pair and i male still-born.

Includes 1 pair still-born.

Includes 1 pair still-born.

TABLE XII.—CONTINUED.—Parent-Nativity of Twins.

		ej,	Twins.			ITY OF	-	ENTE	OF		HER		HER	
		<b>S</b> apj	10	NAT	IVE.	Form	tion.	pu.	pus	Un			KK.	l
COUNTIES.	SEX.	Indiv	Pairs	state.	rent	Same y.	ent s.	ther a	ther a	Fat	her.	Mot	her.	ſ
		Number of Individuals.	Number of Pairs of	Both Parents from Same State.	From Different States.	Both from Sar Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Native.	Foreign.	Native.	Foreign.	
	[Total	10	5	2	1		1	1						1
ionia	Males	2	1				1							1
	Females	8	4	ъ2	1			1						١
	(Total	8	4		1	2	1							l
	Males	4	1			1								I
osco	Females	4	1		1									
	One of each		2			1	1							1
	[Total	10	5	2	2				1					
sabella	Males	4	2	1	1									
	Females	6	3	c 1	1				1					
	[Total	20	10	5	2	2			1					
	Males	11	3	1	1				1					
ackson	Females	9	2	1		1								
	One of each		5	3	1	1								
	[Total	22	11	6	1	2		1	1					
· · · · · · · · · · · · · · · · · · ·	Males	9	2		4 1	1								
(alamazoo	Females	18	4	2		1			1					
	One of each		5	. 4				1						
	[Total	2	1		1									,
To the she	Males	1						****						,
Calkaska	Pemales	1												
-	One of each		1	*****	1									
	[Total	84	17	2	6	4		1	3			1		9
Kent	Males	14	2	1					1					
Tent	Females	20	5		2	1			1	****		1 1		
	One of each		10	1	4	g 3		g 1	1					
Ake	Males	2	-1		1					.,.,				
	[Total	12	6	5		1								
	Males	6	2	2										
Lapeer	Females	6	2	2										1
	One of each		2	1		1								1

a "Native" includes only those born in the United States. Those cases in which the birthplace
was returned as "America" were compiled with the "Unknown."

> Includes 1 female still-born.

4 Includes 1 pair and 1 male still-born.

f Includes 1 pair illegitimate, still-born.

s Includes 1 pair still-born.

s Includes 1 pair still-born.

		_	rins.		NATIV	ITY O	F PAR	ENT	s of	Tw	INS,	1877.		
		duals	4 %		TIVE.	For	EIGN.	and ar.	and r.		THER NK.	FA?	HER NK.	1
COUNTIES.	Sex.	Indivi	Pairs	its state.	ent	вше	ent	Father a	Mother a	Fat	her.	Mot	her.	
		Number of Individuals.	Number of Pairs of Twins.	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father an Native Mother.	Foreign Mother an Native Father.	Native.	Foreign.	Native.	Foreign.	
	Total	8	4	2		2								-
	Males	5	1	61										
eelanaw	Females	3												-
	One of each		3	1		2								1
	Total	28	14	8	4	2		8	1	1				
	Males	18	6	2	1			2		1				ŀ
Jenawee	Females	10	2		0 1	1								1
	One of each		6	1	2	1		0 1	1					-
	Total	6	3		2				1					-
Total makes	Males	4	1						1		****			
lyingston	Females	2												ŀ
(3)	One of each		2		2						****			ļ
	Total	14	7	3	1	1	1	1						
facomb	Males	4	2			4 1		1						
	Females	10	-5	c 3	1		1							-
	Total	8	4	1	1	2								ŀ
	Males	4	1		1									
Manistee	Females	4	1			1								
	One of each		2	• 1		1								Į,
	Total	24	12			9	1	1	1					1
Javanatta	Males	17	6			. 5		1						ŀ
darquette	Females	7	1			1								1
	One of each		5			3	1		1					ł
	Total	4	2	1					1					1
Iecosta	Males	2	1						1					ŀ
	Females	2	1	1										Į
1	Total	2	1			1								1
fonominas	Males	1												-
Menominee	Females	1										:		1
	One of each		1			1								1

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

> Includes I pair Indian.

< Includes I female still-born.

4 Includes I male still-born.

• Includes I pair still-born.

TABLE XII.—CONTINUED.—Parent-Nativity of Twins.

		9	Ins.	5	NATIV	TITY O	F PAR	RENT	5 OF	TW	INS,	1877.		
		of Individuals.	of Tw	NAT	IVM.	Form	ugn.	pr.	od.		HER K.	FAT	HER	Ī
COUNTIES.	SEX.	Indiv	airs	tate.	ent	ıme	ant .	er at	ther,	Fat	her.	Mot	her.	
		Number of 1	Number of Pairs of Twins.	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and, Native Father,	Native.	Foreign.	Native.	Foreign.	
	[ Total	4	2		1			1						ľ
	Males	3	1					1		****				l
lidland	Females	1												١
	One of each		1		1									١
	[Total	14	7	2	1	4								-
•	Males	8	2			2								
onroe	Females	6	1	1										
	One of each		4	1	1	2								,
	{ Total	14	7		3	2		1	1					,
4 1	Males	5												,
ontcalm	Females	9	2		1			1						
	One of each	****	5		2	2			1					
	[Total	10	5		1	3		1						
	Males	6	2		1	1			****					
uskegon	Females	4	1			1								
	One of each		2			1		1						
	[Total	14	7	1	4			1		1				
akland	Males	8	4	1	2			1						
	Females	6	3		2					1				
	[Total	10	5	1	8	1								
ceans	Males	3	1			b 1								
·········	Females	5	1	1										
	One of each	******	3		3									
	[Total	6	3		1	1		1						
eceola	Males	4	2		1	1								
	Females	2	1					1		****				
	[Total	18	9	2		7	•••••	****						
ttawa	Males	7	2			2								
u <del>vol 17 M</del> aa 4 4 4 4 4	Females	11	4	1		3								
	One of each		3	1		2								,

<sup>• &</sup>quot;Rative" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."
• Includes 1 pair still-born.

			į		NATI	ITY O	F PAI	RENT	S OF	TW	'INS,	1877.	•	
		lusie	I I	NAT	TIVE.	Form	eign.	P	9		HER		HEE	I
COUNTIES.	SEX.	ndivi	airs o	tate,	ant	ıme	ant .	ther an	ther.	Fat	her.	Mot	her.	Wn.
		Number of Individuals.	Number of Pairs of Twins	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Native.	Foreign.	Native.	Foreign.	Both Unknown.
	Total	2	1					1						
Passamman	Males	1			.,									
Roscommon	Females	1												١
	One of each		1					1						
	[ Total	34	17	3	2	5	ļ	5	2					
9a	Males	12	4			1	<b> </b>	3						
Saginaw	Females	22	9	2	1	2		2	2		****			
	One of each		4	1	1	b 2								
	[ Total	8	4			3	ļ		1					ļ
Sanilac	Males	5	1			1								١.,
saniiac	Females	8												١
	One of each.	ļ	3			b 2			1					ļ.,
	f Total	18	9	1	4	2			2					١
	Males	18	5		2	2			1					ļ
Shiawassee	Females	5	1		1				i 					
	One of each	<b> </b>	3	1	1									ļ
	[ Total	24	12	4	1	2		3						1
	Males	14	5		1	c 1		2						be
St. Clair	Females	10	3	b 2										a
	One of each		4	. 9		1		1	Į.					ļ.,
	f Total	18	9	4	2	3			ļ					ļ.,
	Males	4	1		1									ļ
St. Joseph	Females	14	6	3	 	3				1				١
	One of each		2	1	1									
	ſ Total	18	9	4	1	2								
	Males	10	4	3										
Tuscola	Females	8	3	1		2		.1.						
	One of each		2		1 1				1			C.		1

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

• Includes 1 pair still-born.

• Includes 1 pair color unknown.

• Includes 1 pair illegitimate, the female still-born.

• Includes 1 male still-born.

f Includes 1 female still-born.

TABLE XII.—CONTINUED.—Parent-Nativity of Twins.

	]		ns.		NATI	VITY O	F PAI	RENT	8 OF	TW	INS.	1877.		
		duals.	M. J.	200	IVE.	For	EIGN.	pi	pu	Mon	THER NE.		HER	1
COUNTIES.	SEX.	Indivi	Pairs	ts State.	ent	ame	i ii ii	her an	her a	Fat	her.	Mot	her.	
		Number of Individuals.	Number of Pairs of Twins.	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Native.	Foreign.	Native.	Foreign.	Both Tinknown
	Total	8	4	2	2									1.
an Buren	Males	1				<b></b>	ļ							1-
an Buren	Females	7	3	1	2	ļ			11					-
	One of each		1	1										-
	Total	18	9	2	3	2		1		1				-
Vashtenaw	Males	7	2	b 1		1			-					-
A WRITTERM	Females	11	4	1		1	<b> </b>			1				-
	One of each		3		0 3									-
	[Total	74	37	3	1	22	8	3	2		****		1	1
Vayne	Males	36	11	1		6	1		1					d
W & J & O	Females	38	12			• 9		2	1				***	1-
	One of each		14	2	b 1	b1 7	2						4 1	8
	Total	6	3	1	2	ļ			~~	-				-
Wexford	Males	3	1		1				8					-
	Females	3	1		1									1-
	One of each		1	1			<b> </b>	)						]-

<sup>\* &</sup>quot;Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

b Includes 1 pair still-born.
c Includes 1 pair illegitimate.
c Includes 1 female still-born.
t Includes 1 mair still-born.
t Includes 1 pair still-born.
but Includes 1 pair still-born.
c Includes 1 pair still-born.

i kaar i seed seed.

<sup>7—1877.</sup> 

TABLE XIII.—Occupations of Fathers of Twins Born in Michigan during the Year 1877, according to the Returns.

OCCUPATIONS.	Number of Each.	OCCUPATIONS.	Number of Each.
ALL OCCUPATIONS	367	Livery-keepers	1
Apiarians	1	LumbermenLumber Merchants	_
Baggagemen	1	Machinists	1
Barbers	1	Masons	2
Blacksmiths	7	Mechanics	5
Book-keepers	1	Merchants	7
"Books and Printing"	1	Millers	1
Brakemen	1	Mill-men	1
Butchers	2	Miners	10
Candy Makers	1	Ministers	1
Carpenters		Moulders	1
Checkers	1	Painters	2
Cigar-makers	4	Peddlers	1
Clerks	5	Physicians	1
Clothiers	1	Plasterers	. 1
Colliers	1	Plumbers	1
Comedians	1	Produce Dealers	1
Coopers	2	R. R. Employes	2
Draymen	1	Sailors	4
Engineers	8	Saloon-keepers	3
Farmers	171	Smelters	1
Filers	1	Speculators	1
Firemen	] ]	Teachers	1
Foremen	1	Teamsters	3
Gardeners	6	Tinsmiths	3
Grocers	1	Unknown	8
Harness-makers	1	Wagon-makers	3
Hotel-keepers	1	Watchmen	1
Joiners	2	Well Diggers	1
Laborers	61		

#### STILL-BIRTHS.

The compilation of still-births for 1877 shows that 720 still-born children were born in Michigan in 1877. This is the largest number ever returned, and the largest proportion of all children born during the year. Exhibit 6 contains data concerning the number of still-born children and their relation to all children born, etc., and shows that 2.15 per cent. of all the children born in 1877 were still-born, and 2.11 per cent. of all the mothers in 1877 bore still-born children.

yra i jeda.i

By Exhibit 7 it may be seen that the proportion of foreign-born mothers who bore still-born children in 1877 was very much greater than of the native-born mothers; also, that the proportion of the Mulatto and of the Indian mothers who bore still-born children was much greater than of the Black or of the White mothers.

EXHIBIT 6.—The Relation of Still-births to all Children Returned as having been Born in Michigan during the several Years 1872 to 1877, inclusive, and of the Mothers of Still-born to all Mothers Returned as having Borne Children during each of the Years 1872 to 1877, inclusive.

		TOTAL I	SIRTHS A	ND STILL	-BIRTHS.	
CHILDREN AND MOTHERS.	1872.	1873.	1874.	1875.	1876.	1877,
All Children born	27,993	34,608	81,151	31,958	34,235	83,895
Still-born Children	a 301	a 348	464	629	646	720
Per Cent, of Still-born to Total	1.08	1.01	1.49	1.97	1.89	2.15
All Mothers	27,641	84,180	80,789	31,586	83,791	83,028
Mothers of Still-born Children	a 293	a 383	454	613	620	697
Per Cent. of Mothers of Still-born Children to All Mothers	1.06	.97	1.48	1.94	1.83	2.11

<sup>\*</sup> As per returns of births.

EXHIBIT 7.—By Nativity and Color, the Number and Proportion of Mothers having Still-births in Michigan during each of the Years 1875 to 1877, inclusive, according to the Returns.

		1875.			1876.			- 1877.	
NATIVITY AND COLOR OF MOTHERS.	Mothers having Still- births.	Whole No. of Moth'rs, includ- ing those of Still- births.	Per Cent. of Mothers of Still- births to all Moth'rs.	Mothers having Still- births.	Whole No. of Moth'rs, includ- ing those of Still- births.	Per Cent. of Mothers of Still- births to all Moth'rs.	Mothers having Still- births.	Whole No. of Moth'rs, includ- ing those of Still- births.	Per Cent. of Mothers of Still- births to all Moth'rs.
Mothers of all colors and all nativities.	613	31,586	1.94	620	33,791	1,83	697	33,028	2.11
All native mothers	299	17,510	1,71	277	19,086	1,45	337	18,891	1.78
All foreign mothers	239	12,777	1,87	268	13,679	1.96	286	13,449	2.12
Mothers of unknown nativities	75	1,299	5.77	75	1,026	7.31	74	688	10.76
White	593	31,147	1.90	595	33,273	1.79	677	32,445	2.08
Black	3	112	2.68	7	139	5,04	1	101	.99
Mulatto	6	89	6.74	2	98	2,27	3	87	3.45
Indian		136		2	139	1.44	4	128	3,13
Unknown	11	102	10.78	14	152	9.21	12	267	4.49
Black and Mulatto	9	201	4.48	9	227	3.96	4	188	2.13

# EXHIBIT 11.—Occupations of Fathers of Still-born Children in Michigan in 1877, according to the Returns.

FATHERS.	C	HILDRE	N.	FATHERS.	C	HILDRI	en.
Occupations.	Males.	Fe- males,	Unk.	Occupations.	Males.	Fe- males.	Unk.
Accountants	. 1			Livery-keepers			1
Artists	1			Lumbermen	1	2	
Attorneys	1	<b></b> -		Lumber Manufacturers		1	
Baggagemen	1			Machinists	4	1	1
Bakers	1	1		Manufacturers	1		
Barbers	1			Mechanics	2	4	
Baskot-makers	1			Merchants	11	8	<b></b>
Blacksmiths	8	5		Millers	. 2	1	<b></b> .
Boiler-makers		1		Mill-hands	1		
Book-keepers	2			Mill Men		1	
Brewers	1	1		Mill-owners		1	
Broom-makers	1			Mill-wrights	1	<b></b>	
Butchers	5	2		Miners	13	12	3
Cabinet-makers	1	1		Ministers	8	2	
Canal Supts.		1		Moulders		ī	1
Carpenters	10	9	1	Painters	1	i	
Cigar-makers	1	1		Peddlers	1	2	
Cigar-manufacturers	1			Physicians	8	-	
Clerks	6			Piano-makers	1 -	1	
Coal-miners	1	1		Plasterers		1	
Cooks	_	ī		Plumbers	1	2	
Coopers		2	1	Policemen	i	1	*****
Comedians	1	ī		Produce Merchants	1	_	
Conductors	1			l i	1	1	
	1			R. R. Employes	- 1	1	
Confectioners	1			Retired Capitalists	1		
Deputy Co. Clerks	_			Sailors	2	2	
Ditchers		1		Saloon-keepers	3	8	
Draymen		2	•	Salt-makers	2	•	•
Drovers	1			Saw-mill Filers		1	
Druggists		1	1	Sawyers	2		
Engineers	5	1		School Janitors	1		
Farmers	175	115	8	Shoe-makers	4	3	
Farm laborers	1	2	•	Sheriffs	1		
Firemen	2			Students		1	
Fishermen			1	Superintendents	1		
Foremen	1			Tailors	2	2	
Grain Merchant		1		Tanners	1	1	
Grocers	2			Teachers	2		
Hatters	1			Teamsters	7	2	1
Hotel-keepers	5			Tinsmiths	2		
Hucksters		2		Tollgate-keepers		1	
Insurance Agents	1			Traders		1	
Jewelers	1			Trappers		1	
Jewish Rabbi	1	ļ		Unknown	84	83	5
Joiners		1		Wagon-makers	1	1	
Laborers	87	45	7	Wood-choppers	1		

TABLE XIV.—Exhibiting, by Sex, the Parent-Nativity, and by Sex and by Months, the Number of Still-dirths in Michigan during the Fear 1877, according to the Returns.

		UNK.	UNK. Mother.		Mative. M Carling of A Foreign.	M Cative. On Cative on M Cativ	M Mother Mattree of M Mattree of M M M M M M M M M M M M M M M M M M
NATIVITY OF PARENTS OF BTILL BIRTHS, 18/1.	MOTHER UNK.	Father.	-	Vative. Foreign.		majozod	mplacod
	-aN ba	тэйл в тэй	IVE MC	Foreig	Foreig	Foreig	Foreign
١		1	ent Co ries. gn Fati	1	1 00	00000	1 0 00 0
	FOREIGN.	٠٤.	Сопры	Same	emes Same	emes 5 5	omes   25 g
	A		A	Total	LatoT 8	Total	MaroT 8 2 2
	ai	.893	stent Sta	DIE	ma E	oma   E S	oma   E & #
	NATIVE.	10	e State.	nas	mas S	mes S %	mas 8 8 18
			.la:	OT	OT 2	от 2 3	10T 2 25 35
	PARENTS BORN IN	Міситоли.	отрет.	ĸ	w 8	M 8 8	1 12 80 M
	PAI	Mici	лэцэг	A	136	136 75	4 58 tr 20
			Inknown.	1	-	-	
	_	_	December,	1	1	1	1
	-		Осторет. Мочетрет.	1	72 68		
			September.		46		
1877.			August.		22	<b>5</b> 4	£ ± £
MONTES, 1877.			July.		26		
ŝ		_	May.	-	52 58		
			ЛтфА	-	8		
			March.	7.4	:	=	. 1 98
			February.	49		88	19
			January	38		15	8 8
		1877.		■ 720		b 309	b 399
		SEX.		Total		Males	Males

Includes 9 pairs and 3 pair-pairs mate twins, 3 pairs and 1 pairs four to pairs twins, 11 pairs tw
 Includes 1 Black, 2 Mulatto, 2 Indian, and 1 unknown color; and 5 illegitimates.

e Includes 1 Black, 1 Mulatto, 2, Indian, and 1 unknown color; and 6 illegitimates.

<sup>4</sup> Includes 10 color unknown and 1 illegitimate.

TABLE XV.—Parent-Nativity of Still-born Children,—Exhibiting, by Sex, the Number and Per Cent. of Total Number Returned as having been Born in Michigan during the Year 1877, of Parents who were Natives of the Same and of Different States or Countries.

			STI	LL-BOR	n Childi	REN, 1877	7.	-
NATIVITY OF PARENTS OF STILL-BIRTHS, 1877.		Nux	BER.		Рв. Ст. с	OF BACH I	PARENT-N LL NATI	ATIVITY VITLES.
	Total.	Males.	Fe- males.	Un- kno'n.	Total.	Males.	Fe- males.	Un- known.
All Nativities	720	399	290	81	100,00	100.00	100.00	100,00
Same American State or Foreign Country	406	231	152	23	56.39	57.89	52.41	74.19
Different American States or Foreign Countries	134	75	57	2	18.61	18.80	19.66	6.45
Foreign Father and Native Mother	67	35	31	1	9.44	8.77	10,69	3.23
Foreign Mother and Native Father	24	12	12		3.33	8.01	4.14	
Unknown Mother, Father Native	8	1	2	<b></b>	.42	.25	.69	
Unknown Mother, Father Foreign	5	8	2		.70	.75	.69	
Unknown Father, Mother Native	8	3	4	1	1.11	.75	1.38	8.23
Unknown Father, Mother Foreign	4	1	3		.56	.25	1.08	
Both unknown	69	38	27	4	9.60	9.52	9,81	12,90
Different States or Countries	225	122	100	3	31.25	30,58	84.48	9.68
Native	274	158	108	8	38.06	39.60	37.24	25.81
Foreign	266	148	101	17	36,94	87,09	84.83	54.84

#### ILLEGITIMATE CHILDREN.

The relation of illegitimate children to all children born, and of the mothers of illegitimates to all mothers, for each of the years 1872-1877, may be studied in Exhibit 8, following. With the exception of the year 1873 (which was a year for which an unusually large number of births were returned), the number of illegitimate children returned for the year 1877 was larger than for any other year, and the proportion which the illegitimate children were of all children born was greater in 1877 than in any previous year. There were 316 illegitimate children returned for 1877, which is .95 per cent. of all children born; and .94 per cent. of all the mothers in 1877 bore illegitimate children,—nearly one in every one hundred mothers.

EXHIBIT 8.—The Relation of the Illegitimate Children to All Children Returned as having been Born during the several Years 1872 to 1877, inclusive, and of Mothers of Illegitimates to All Mothers Returned as having Borne Children in Michigan during the Years 1872 to 1877, inclusive.

		TOTAL B	IRTHS AN	D ILLEG	ITIMATES	
CHILDREN AND MOTHERS.	1972.	1873.	1874.	1875.	1876.	1877.
All Children born	27,993	34,608	81,151	81,958	34,235	33,395
Illegitimate Children	199	316	236	193	266	816
Per Cent. of Illegitimates to Total	.71	.91	.76	.60	.78	.95
All Mothers	27,641	31,180	80,739	81,586	83,791	33,028
Mothers of Illegitimate Children	195	314	236	192	262	312
Per Cent, of Mothers of Illegitimates to All Mothers	.71	.92	.77	.61	.78	.94

In Exhibit 9 it is shown that the proportion of Indian mothers who bore illegitimate children in 1877 was greater than of any other race mentioned in the exhibit.

EXHIBIT 9.—By Nativity and Color, the Number and Proportion of Mothers of Illegitimate Children Returned as having been Born in Michigan during the Years 1875 to 1877, inclusive.

		1875.			1876.			1877.	
NATIVITY AND COLOR OF MOTHERS.	Mothers having Illegitimates.	Whole No. of Mothers includ- ing those of Illegiti- mates.	Per Ct. of Moth- ers of Illegiti- mates to all Moth'rs.	hav-	Mothers includ-	Per Ct. of Moth- ers of Illegiti- mates to all Moth'rs.	Mothers having Illegitimates.	Mothers includ- ing	Per Ct. of Moth ers of Illegiti- mates to all Moth'rs.
Others of all colors and all nativities	192	31,586	.61	262	83,791	.78	312	33,028	.94
All Native Mothers	96	17,510	.55	170	19,086	.89	160	18,891	.85
All Foreign Mothers	31	12,777	,24	53	13,679	.39	79	13,449	.59
Mothers of unknown nativities.	65	1,299	5.00	39	1,026	3,80	73	688	10.61
White	166	31,147	.53	243	33,273	.78	286	32,445	.88
Black	8	112	7.14	3	139	2.16	6	101	5,94
Mulatto	3	89	3.37	7	88	7.95	4	87	4.00
Indian	15	138	11.03	9	139	6,41	15	128	11.79
Unknown		102			152	*****	1	267	
Black and Mulatto	11	201	5.47	10	997	6.47	_		

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						-	LNOJ	MONTHS, 1877	1877.						NATIVITY OF MOTHERS OF ILLE- OITIMATE CHILDREN, 1877.	TYYO	P Mo	THER	8 OF I	LLE.	_	SITIE	TOP	FAT	NATIVITY OF FATHERS OF ILLE- GITIMATE CHILDREN, 1877.	1877	LE.
								7	-	-	-	-	-		NATIVE.	IVE.		FOREIGN.	GN.		. ~	NATIVE.	pi	A	FOREIGN.	*	
SEX.	YEAR, 1877.	.Vanuary.	February.	March.	April.	May.	June.	July.	August.	September.	October.	Хочетрег.	December.	Томпомп.	Total. Born in Mich-	Born in Other	States.   Total.	Born in Can-	Born in Other Countries.	Опквомв.	JanoT	Born in Mich- fgan.	Born in Other States.	Total.	Born in Can-	Born in Other Countries.	.пмоимп.
Total	.316	12	13	8	82	25	75	-1	18	13	37	57	75	9 16	111 191	1 50	8	37	3	13	51	9	=	8	6	16	240
Males	b 182	21	17	0	18	11	13	14	120	16	24	13	13	*	94 66	88	2	81	83	7	27	8	10	16	9	10	4139
Females.	s. e 133	22	00	=	10	11	=	10	9	00	22	-	=	61	66 45	121	98	15	22	431	75	18	9 4	6	00	9	1100
Unknown	-	-1	-	- :	1	1	1	1	1	-	-	1	i	1	-	-	1	1	1	1	1	1	- 1		- 1	- 1	-

A Includes 3 "America."
4 Includes 2 "America."
5 Includes 2 Black, 1 Mulatto, 6 Indian, and 4 "Half breed"; and 6 still-born.
7 Includes 1 United States.

ABLE XVII.—Exhibiting, by Color and by Sex, the Number of Illegitimate Children Born in Michigan during the Year 1877; also the Per Cent. of Each Sex to the Total of Both Sexes.

COLOR OR RACE.	SEX.	Total Illegiti- mate Births, 1877.	Per Cent. of Each Sex to Total of Both Sexes.
	(Total	316	
	Males	182	57.78
All Colors	Females	183	42,23
	Unknown	1	
	Total	290	
White	Males	169	58.48
w mree	Females	120	41.52
·	Unknown	1	
	Total	▲ 6	
Black	Males	4	68,67
	Females	2	33.83
	Total	4	
Mulatto	Males	8	75 00
	Females	1	25.00
	Total	► 15	
Indian	Males	5	88.83
	Females	10	66.67
Unknown	_Males	1	
	Total	10	
Black and Mulatto	Males	7	70.00
	Females	8	80.00

Includes 1 male "Colored."
 Includes 1 male and 4 females "Haif-breed."

TABLE XX.—Exhibiting the Number of Males to 100 Females among Twin Children, and the Number of Illegitimate and Still-born Children Returned as having been born in Michigan during the Year 1877.

STATE AND COUNTIES. StateAlconaAlpena	win Children,— Number of Males to 100 Females.	Number of Illegitimate Children born in 1877.	Number of Still- births in 1877.	COUNTIES.	Twin Chil- dren,— Number of Males	Number of Illegiti- mate Chil-	Number of Still-
AlconaAlleganAlpena		316			to 100 Females.	dren born in 1877.	births in 1877.
Allegan	•		720	Lake			2
Alpena		2	1	Lapeer	100	8	12
· .	300	7	15	Leelanaw	167	8	9
ľ			1	Lenawee	180	2	11
Antrim	100		3	Livingston	200	1	8
Baraga	100	3	4	Mackinac			1
Barry	60	4	14	Macomb	40	7	20
Вау	175	1	34	Manistee	100	2	11
Benzie	•		3	Marquette	243	6	28
Berrien	33	2	9	Mason		1	2
Branch	220	5	10	Mecosta	100		7
Calhoun	83	7	12	Menominee	100		
Cass	100	10	3	Midland	300	1	1
Charlevoix		2	1	Missaukee			
Cheboygan	100	2	2	Monroe	133	8	35
Chippewa		1		Montcalm	56	1	7
Clinton	300	7	9	Muskegon	150	1	8
Delta			<b></b>	Newaygo		2	
Eaton	60	2	6	Oakland	133	2	10
Emmet		5		Oceana	100	1	•
Genesee	167	6	11	Ontonagon		8	1
Grand Traverse	50	4	2	Osceola	200	1	1
Gratiot	100	2	8	Otsego			:
Hillsdale	20	2	4	Ottaws	64	8	85
Houghton	75	1	26	Roscommon	100		
Huron	200	3	10	Saginaw	55	5	4
Ingham	200	2	11	Sanilac	167	5	1
Ionia	25	5	10	Shlawassee	260	1	
Iosco	100		3	St. Clair	140	14	ע
Isabella	67	8	5	St. Joseph	29	:	10
Jackson	122	7	28	Tuscola	125		10
Kalamazoo	69	4	14	Van Buren	14		,
Kalkaska	100	1	1	Washtenaw	64		1
Kent	70	18	42	Wayne	95	336	90
Keweensw			10	Wexford	100		•

<sup>-</sup> No Females.

TABLE XVIII.—Exhibiting the Number of Males to 100 Females, and by Sex, the Number and Per Cent. of Total Number of Illegitimate Children Born of Native and of Foreign-born Parents, in Michigan, during the Year 1877, according to the Returns.

				IL	LEGITI	MATE C	HILDERN	, 1877.		
NATIVITY OF PARENTS	-	Number of		Nux	BER.		P	ER CENT.	OF TOT.	AL.
		Males to 100 Fe- males.	Total.	Males.	Fe- males.	Unk.	Total.	Males.	Fe. males.	Unk.
All Nativities		137	816	182	183	1	100.00	100.00	100.00	100.00
Nati	/e	142	161	94	66	1	50.95	51.65	49.62	100.00
Mothers Fore	gn	122	80	44	86		25,32	24.18	27.07	
Unkr	own.	142	75	44	81		23.73	24.18	23.31	
Nativ	7 <b>6</b>	111	51	27	24		16.14	14.84	18.05	
Fathers Fore	ign	178	25	16	9		7.91	8.79	6.77	
Unkr	own.	139	240	139	100	1	75.95	76.37	75.19	100.00

There were nine townships from which it was reported that no births occurred in 1877, as shown in Exhibit 10. Six of these townships represented a population, in 1874, of 839, the other three in the exhibit having been organized since the Census of 1874 was taken. These townships are all comparatively small, with the exception of Gilmore, in Benzie county, the population of which was reported to have been 504 in 1874; and it does not seem probable that there was not a child born in so large a population during the year.

EXHIBIT 10.—Townships in which it is Reported that there were No Births in 1877.

GO-177-177-17	Townships,—No Births	Popu	LATION IN	1874.
COUNTIES.	IN 1877.	Total.	Males.	Females.
Total		839	473	366
Alcona	Comins			
Benzie	Gilmore	504	272	283
201110	Lake	40	22	18
Cheboygan	Nundaa			•••••
Iosco	Plainfield	119	71	48
Kalkaska	Excelsior			
Manistee	Springdale	49	28	21
Ontonagon	Carp Lake	76	<b>#</b>	l
Sanilac	Moore	<b>51</b>		

<sup>\*</sup>Organized since census was taken.

TABLE XXI.—Exhibiting the Counties and Townships from which no Returns of Births in 1877 were received, and the Number of Inhabitants in 1874, in such Counties and Townships.

	Townships From which no Re-	Port	LATION IN	1874.
COUNTIES.	turns of Births were Received for 1877.	Total.	Malos.	Females.
Total		4,223	2,483	1,799
Chippewa	CDetour	221 222	181 178	90
Clare	Sheridan	212	125	87 15
Emmet	Centerb			
Gladwin	Pleasant Viewb	•••••	64	
Isle Royal	Grout	_	4	•
Mackinac	Holmes	798	406	392
Manitou	Chandler	158	89	64
Menominee	Breitung	242	159	88
Ogemaw	All Townships	207	153	54
Otsegob	Charltonba Elmiraba Livingstonba			
Presque Isle	Presque Isle	719	368	851
Roscommonb	(Dentonba			
Schoolcraft	Munising	472 517	320 309	153 208
Wexford	Harringa Cadillac, 1st, 2d, 3d Wardsba	199	119	80

a County Clerk says no returns from Supervisor.
b Organized since Census was taken.

# SEX OF CHILDREN.

Data for the study of this subject are given in the following exhibits and tables. In Exhibit O, it may be seen that the greatest excess of males over females was in April, and in May the excess was of females.

TABLE XXII.—Exhibiting, by Months, the Relation between the Total Number of Conceptions during certain Months of the Years 1876-7, and the Proportion of each Sex Conceived during the same time and Born during the Year ending December 31, 1877, according to the Returns.

		-			
	of 1876 and 1877 of Conceptions of a in 1877, in order by number, the first.	Total Number of Concep- tions, b	Months ber o first.	s of 1876 and 1877, in order by num- of Males to 100 Females, greatest	Number of Male to 100 Females
020	April	2,169	4	April	116
Con.	May	2,441	Ave	July	116
Less than the Average Number of Con. ceptions.	August	2,630	han the Aver- Proportion of Males.	May	118
than the A umber of ceptions	June	2,631	Pro f M	January, 1877	119
o Hip	July	2,689	More than age Pro of M	Octoberc	110
Tes.	September	2,693	Mo	March, 1877	108
Avera	gė	2,773	Avera	ge	107
4	October	2,843	9	November	107
Aver-	February, 1877	2,881	verage	June	108
Number onceptions.	January, 1877	2.959	Proportion of Males.	February, 1877	10
Nun	March, 1877	3,081	port Mal	September	10
More than the Arage Number of Conceptions.	December	3,089	Pro	December	10
Mo	November	3,166	Less	Auguste	9

a Equalized to months of 30.44 days each, and excluding unknown sex and unknown month.

For purposes of this study the time of conception is presumed to be nine calendar months previous to the month of birth.

Exceptions to the proposition that more than the average proportion of males were conceived in months in which less than the average total number of conceptions occurred, and vice versa.

EXHIBIT N.—Births Returned as having occurred in Michigan during the Year 1877, by Sex, and by Months Equalized to 30.44 days each.

-	MONTHS OF BIRTHS, EQUALIZED, 1877.													
SEX.	1877.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Total	<b>a</b> 33,397	2,173	2,442	2,641	2,694	2,634	2,696	2,847	8,169	3,098	2,960	2,889	8,088	71
Males	17,230	1,166	1,296	1,847	1,442	1,290	1,851	1,487	1,634	1,553	1,562	1,467	1,601	84
Pemales	16,108	1,003	1,145	1,284	1,247	1,840	1,342	1,356	1,532	1,536	1,397	1,414	1,480	82
Unknown.	59	4	1	10	5	4	8	4	8	4	1	8	7	5

The number of births of each sex, and the total number, as equalized, are not the same as the almber returned, because of the gain or loss of fractions, and the unequal numbers in the several months, modified by addition and subtraction. The number of births returned was 33,306,—17,337 males, 16,109 females, and 59 of unknown sex.

TABLE XXIII .- Exhibiting, by Months, the Relation between the Number of Conceptions and the Number of Males to 100 Females. Conceptions estimated from Births Corrected as if Enumerated in Months of Occurrence and Equalized to Months of uniform length.

	Conce	PTIONS FOR	Вівтна	IN 1877.	
Birthi Corre- occur- unifor	of 1876 and 1877 of Conceptions of s in 1877, estimated from Births cted as if enumerated in months of rence, and equalized to months of m length. Months arranged in by number, the least first.	Number of Concep- tions as Corrected and Equal- ized.b	Births Correct occurr unifor order	of 1876 and 1877 of Conceptions of in 1877, estimated from Births ted as if coumerated in months of rence, and equalized to months of m length. Months arranged in by number of Males to 100 Females, est first.	Number of Male to 100 Female: Births Correcte and Equatized.
Con-	February, 1877	3,737	of of	April c	119
of C	March, 1877	8,845	Av on o	July	] 1r
Less than the crage No. of C	April	3,888	the ortices.	May	111
# 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	January, 1877	3,983	than the A. Proportion of Males.	January, 1877 c	11
Less	September	4,158	Se t	October	11
AV018	go	4,174	More age	March, 1877 c	10
<b></b>	August	4,194	Avera	ge	10
verage ons.	October	4,252	ver-	November c	10
epttc	May	4,256	<b>4</b> _	June	10
than the Aver of Conceptions.	December	4,312	the ortic	February, 1877	10
of C	July	4,421	than the Proportion Males.	September	10
More ti No. o	June	4,457	18 tl	December •	10
Mo.	November	4,579	Less 1	   August •	9

EXHIBIT O .- Births Returned as having occurred in Michigan during the Year 1877, by Sex, and by Months Equalized to 30.44 days each, and, by Months, the Excess of Males over Females, and the Number of Males to 100 Females. Unknown Sex and unknown months excluded.

YEAR, MONTHS OF BIRTHS AS EQUALIZED, 1877.									77.				
SEX.	1877.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Both Sexes	- 33,272	2,169	2,44]	2,631	2,689	2,630	2,693	2,843	3,166	8,089	2,959	2,881	3,06
Males	17,198	1,166	1,296	1,347	1,442	1,290	1,351	1,487	1,634	1,558	1,562	1,467	1,60
Females	16,076	1,003	1,145	1,284	1,247	1,340	1,842	1,856	1,532	1,588	1,897	1,414	1,49
Excess of Males	1,120	163	151	63	195	50	9	131	102	17	165	53	12
Males to 100 Fe- males	107	116	113	105	116	96	101	110	107	101	112	104	10

Excluding 125 births of unknown sex and unknown month.

a See foot note b to Table XXII., page 61.
b Excluding nnknown month and unknown sex.
c Exceptions to the proposition that mere than the average proportion of males were conceived in months in which more than the average number of conceptions occurred and less than the average proportion of males in months in which less than the average number of conceptions occurred.

TABLE XXIV.—Exhibiting, by Months, according to the Returns, the Relation between the Total Number of Conceptions, and the Total Number of Deaths which occurred in the Months of the Years 1876 and 1877 in which were Conceived the Children Born during the Year ending December 31, 1877.

	DEATHS.			Conceptions, b	
Birt	is a of 1876 and 1877 of Conceptions of his in 1877, arranged in order by Total order of Deaths, the least first.	Number of Deaths, as Equal- ized.	Birt	is a of 1876 and 1877 of Conceptions of hs in 1876, in order by number, the t first.	Number of Concep- tions, as Equal- ized. a
0.9	January, 1877	758		Aprilc	2,173
Average aths.	June	868	verage tions.	May	2,442
the Averior of Deaths.	February, 1877	916	cep	August	2,634
gg.	May	953	So t	June	2,641
than Number	March, 1877	973	Less than the Averag No. of Conceptions.	July	2,694
S C C C C C C C C C C C C C C C C C C C	April	992	Les	Soptember	2,696
Less	November	1,004	Ave	rage	2,777
AV6	rage	1,057	ر ۾	Octoberc	2,847
	( July	1,060	verage tions.	February, 1877	2,889
a a	October	1,111	More than the Averag No. of Conceptions.	January, 1877	2,960
an the Douth	December	1,132	Cont.	March, 1877	3,088
o the	September	1,443	0 th	December	3,093
More No.	August	1,480	No.	November	3,169

EXHIBIT P.—Births Returned as having occurred in Michigan during the Year 1877, by Sex and by Months, Corrected for Omissions in Enumerating, Equalized for Increase of Population during the Year covered by the Returns, and as this corrected and Equalized, for the several Months, Equality ized for Months of 30.44 days each.

YEAR,			_		Mont	ня ор	BIRTE	r, 1877.				
1877.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
51,247	4,052	4,420	4,613	4,561	4,312	4,268	4,841	4,659	4,878	4,030	3,764	8,850
26,650	2,193	2,362	2,877	2,461	2,128	2,150	2,282	2,417	2,208	2,136	1,924	2,019
24,597	1,859	2,058	2,236	2,100	2,184	2,118	2,059	2,242	2,165	1,894	1,840	1,847
	1877. 51,247 26,650	1877. Jan. 51,247 4,052 26,650 2,193	1877. Jan. Feb. 51,247 4,052 4,420 26,650 2,193 2,362	1877. Jan. Feb. Mar.  51,247 4,052 4,420 4,613 26,650 2,193 2,362 2,377	YEAR, 1877. Jan. Feb. Mar. April.  51,247 4,052 4,420 4,613 4,561 26,650 2,193 2,362 2,377 2,461	YEAR, 1877. Jan. Feb. Mar. April. May. 51,247 4,062 4,420 4,613 4,661 4,312 26,650 2,193 2,362 2,377 2,461 2,128	YEAR, 1877. Jan. Feb. Mar. April. May. June. 51,247 4,052 4,420 4,613 4,561 4,312 4,263 26,650 2,193 2,362 2,377 2,461 2,123 2,150	YEAR, 1877. Jan. Feb. Mar. April. May. June. July. 51,247 4,052 4,420 4,613 4,561 4,313 4,263 4,341 26,650 2,193 2,362 2,377 2,461 2,128 2,150 2,282	YEAR, 1877. Jan. Feb. Mar. April. May. June. July. Aug. 51,247 4,052 4,420 4,613 4,561 4,312 4,263 4,341 4,659 26,650 2,193 2,362 2,377 2,461 2,123 2,150 2,282 2,417	1877. Jan. Feb. Mar. April. May. June. July. Aug. Sept.  51,247 4,052 4,420 4,613 4,561 4,312 4,263 4,341 4,659 4,373 26,650 2,193 2,362 2,377 2,461 2,128 2,150 2,282 2,417 2,308	YEAR, 1877. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. 51,247 4,052 4,420 4,613 4,561 4,312 4,263 4,341 4,659 4,873 4,030 26,650 2,193 2,362 2,377 2,461 2,128 2,150 2,282 2,417 2,206 2,136	YEAR, 1877. Jan. Feb. Mar. April May. June. July. Aug. Sept. Oct. Nov. 51,247 4,052 4,420 4,613 4,561 4,312 4,263 4,841 4,659 4,873 4,030 3,764 26,650 2,193 2,362 2,377 2,461 2,128 2,150 2,282 2,417 2,208 2,136 1,924

Equalized to months of 30.44 days each, excluding unknown months.
 See foot-note b to table XXIL, page 61.
 Exceptions to the proposition that there were more than an average number of conceptions in months in which less than an average number of deaths occurred, and less than an average number in months in which more than an average number of deaths occurred.

TABLE XXV.—Exhibiting the Relation, by Months, between the Number of Conceptions and the Number of Deaths, the Number of Deaths and Births Returned from which Conceptions are estimated, being Corrected as if Enumerated in Months of Occurrence, and Equalized to Months of uniform length.

	DEATHS.			Conceptions.	
Birt ber Corr	ns of 1876 and 1877 of Conceptions of the in 1877, arranged in order by num- of Deaths, the least first. Deaths rected as if enumerated in months of arrence, and equalized to months of form length.	as Cor- rectedand	Birt rect curr forn	is of 1876 and 1877 of Conceptions of his in 1877, estimated from Births Cor- ed as if enumerated in months of co- ence, and equalized to months of uni- n length. Months arranged in order number, the least first.	of Conceptions, as Corrected
22	January, 1877	1,258	0,8	February, 1877	8,787
ers.	November	1,282	eptte	March, 1877	3,845
e Average Deaths.	June	1,309	s than the Av. of Conceptio's.	April	3,988
Ē٣.	December	1,394	a s	January, 1877c	8,988
per per	October	1,470	No.	September	4,158
Less than Number	May	1,481			
Ľ	February, 1877	1,494	Aver	age	4,174
_			8.4	(Auguste	4,194
Aver	age	1,537	era	October	4,252
÷.,	March, 1877	1,544	the Average Conceptions.	May	4,256
the Aveaths.	July	1,549	<b>දී</b> රී .	December	4,812
ge.	April	1,589	More than Number of	Julye	4,421
More than t	September	1,978	SE	June	4,457
NO NO	August	2,095	žž	November	4,579

See foot note b to Table XXII, page 61.
 Excluding unknown month and unknown sex.
 Exceptions to the proposition that there were more than an average number of conceptions in months in which less than an average number of deaths occurred, and less than an average number of conceptions in months in which more than an average number of deaths occurred.

TABLE XXVI.—Exhibiting by Months, the Relation between the Number of Deaths and the Proportion of each Sex Conceived during the same Months of the Years 1876 and 1877; the Number of Births and Deaths Returned from which Conceptions are estimated being Corrected as if Enumerated in Months of Occurrence, and Equalized to Months of uniform length.

	DEATHS.			CONCEPTIONS.	
Birt ber rect occi	ths of 1876 and 1877 of Conceptions of his in 1877, arranged in order by numof Deaths, least first. Deaths Cored as if enumerated in months of arrence, and equalized to months of form length.	Number of Deaths, as Cor- rected and Equal- ized.	Birth recte curre form	s of 1876 and 1877 of Conceptions of s in 1877, estimated from Births Cor- d as if enumerated in months of oc- nce, and equalized to months of uni- length. Months arranged in order mber of Males to 100 Females, great- rat.	Number of Males to 100 Fe-males. Births Correct ed and Equalized.
980	January, 1877	1,258	of of	April	118
tbe.	November	1,282	A o u	Julye	117
o Average Deaths.	June	1,809	e the	May	115
څځ.	December	1,394	than the Av Proportion of Males-	January, 1877	113
then umber	October	1,470	Se ti	October	111
Nam	May	1,481	More t	   March, 1877	109
100	February, 1877.	1,494	A†era	ge	108
Ave	rage	1,537	Aver-	November	108
ا خ	March, 1877	1,544	₹°	June	106
ho A	July	1,549	e the	February, 1877	105
on the Death	April	1,589	than the Ar Proportion of Males.	September	102
158	September	1,978	36 24	December	102
Kore	August	2,095	Less t	   August	97

<sup>\*</sup>See foot-note \* to Table XXII, page 61.
\*Excluding births in unknown month and of unknown sex.
\*Exceptions to the proposition that more than an average proportion of males were conceived in months in which less than an average number of deaths occurred, and less than an average proportion of males in months in which more than an average number of deaths occurred.

<sup>9-1877.</sup> 

TABLE XXVII.—Exhibiting by Months, according to the Returns, the Relation between the Total Number of Deaths and the Proportion of each Sex Conceived during the same Months of the Years 1876 and 1877, and Born during the Year ending December 31, 1877.

	DEATHS.			Conceptions.	
Birth	s of 1876 and 1877 of Conceptions of as in 1877, arranged in order by ther of Deaths, the least first.	Number of Deaths as Equal- ized.	Months ber of first.	st of 1876 and 1877, in order by num- of Males to 100 Females, greatest	Number of Males to 100 Females.
2	January, 1877	753		April	116
E d	June	869	Ave	July	116
e Average Deaths.	February, 1877	916	age Proportion of Males.	May	113
급형 .	May	953	Pro	January, 1977	112
than umber	March, 1877	973	More t	October	110
Less the	April	992	Mo	March, 1877	108
วี	November	1,004	Avera	ge	107
Avera	ge	1,057	L	November	107
Α. 	(July	1,060	Aver- lon	June	105
the A	October.	1,111	the porti	February, 1877	104
	December	1,132	Less than the Ave age Proportion of Males.	September	101
More than crage Nu of Dea	September	1,443	age th	December	101
Mor	   August	1,480	Le	August	96

<sup>\*</sup>See foot-note b to Table XXII, page 61.

b Equalized to months of 30.44 days each, excluding unknown month.

c Exceptions to the proposition that more than an average proportion of males were conceived in months in which less than an average number of deaths occurred, and less than an average proportion of males in months in which more than an average number of deaths occurred.

TABLE XXVIII.—Exhibiting for the Total Births, for the Twins, Illegitimates, and Still-born Children Returned as having been Born in Michigan during the Year 1877; the Number of Boys to 100 Girls among such Children, distinguishing the Parent-Nativities, and thus exhibiting the Influence of Parent-Nativity upon Sex of Children.

		Birth	s, 1877. <b>•</b>		Boys to 1	00 GIRLS.	
NATI	IVITY OF PARENTS.	Males.	Females.	Total Births.	Twin Children.	Illegiti- mates.	Still- births.
All Nativi	ties	17,227	16,109	106.94	100.00	136.84	187.59
Both Pare	nts Native	7,926	7,824	108.14	94, 19		146,80
Both Pare	nts Foreign	5,936	5,600	106.00	110,00		146.53
Foreign F	ather and Native Mother	1,861	1,770	105.14	123.53		112.90
Foreign M	other and Native Father	1,011	935	108.13	91.80		100.00
One or Bot	th Unknown	498	480	102.71	52.94		121.05
	Native	9,899	9,183	107.70	98,08	142.43	137.06
Mothers	Foreign	6,995	6,581	106.29	105.48	122.22	188,79
	Unknown	842	345	99,13	66.67	141.94	135,48
	Native	9,028	8,342	108,22	92.04	112.50	140.16
Pathers	Foreign	7,852	7,485	105.61	112,99	177.78	138.81
	Unknown	847	832	104.52	63.64	139,00	128.58
One or Bot	h Native	10,992	10,201	107.75	95.78		183, 19
One or Bot	h Foreign	8,911	8,416	105.88	108,89		133.56
Both Unkn	own	196	197	99.49	100.00		140.74
Same Cour	itry	ь 13,842	b 12,924	ь 107.25	· 101.43		c 147.24
Different C	Jountries	d 2,873	d <b>2,70</b> 5	4 108.17	• 105.80		• 113,21
Country Different A	erican State or Foreign				99.01		151.97 131.58

<sup>\*</sup>Excluding unknown Sex.
\*Includes "Native" and "Foreign."
\*Includes "Native," and asme Foreign Country.
\*Includes "Foreign Father and Native Mother," and "Foreign Mother and Native Father."
\*Includes "Different Countries," "Foreign Father and Native Mother," and "Foreign Mother and Native Father."

### MARRIAGES, 1877.

Eleven thousand and nine (11,009) marriages were returned as having been solemnized in Michigan during the year 1877. This is the number in the general returns for 1877, and will probably be increased by subsequent returns by about seven or eight hundred. The number returned for 1877 is larger than the number included in the first returns for any previous year except 1874 and 1875.

The following tabular exhibit shows, by nativity, the average age of males and of females married in this State during each of the years 1874–1877. The average age of the native-born persons married was greater each year than of the foreign-born; and the excess of the average age of the males over that of the females, of all nativities, in each year, was as follows: 1874, 6.88 years; 1875, 5.01 years; 1876, 5.14 years; 1877, 5.19 years. The average of the excess for the four years 1874–1877 was 5.56 years, so that it may be stated, judging from the returns of marriages, that the males married in this State will average about five and one-half years older than the females.

An examination of the exhibit shows that the excess of the age of the males over the age of the females was greater among the native-born than among the foreign-born, for each of the years 1875, 1876, and 1877.

	187	74.	18	75.	18	76.	18	77.
NATIVITY OF PERSONS MARRIED.	Males.	Fe- males.	Males.	Fe- males.	Males.	Fe- males.	Males.	Fe- males.
All nativities	28.07	21.19	27.91	22,90	28,19	28.05	28.25	23.06
Native	*	•	27.69	22,54	27.64	22.53	27.76	22.49
Foreign	•	•	28.45	24.21	29.54	24.82	29.53	24,68
Unknown	•	•	27.28	20,91	27.94	23.82	27.75	94,36

<sup>\*</sup> Not compiled.

The average number of marriages for certain specified periods of time during the year 1877, including those in unknown month is as follows:

Average number per quarter	3. 75 <b>2.2</b> 5
Average number per month	
Average number per week	
Average number per day	30 16
Myorago number per uny	00.10

Table I. shows the number and per cent. of marriages, by quarters of the year, for each of the years 1872–1877, the number in each of the years 1872–

1876 having been corrected, for additional returns, up to February 1, 1879. The largest number and per cent. for 1877 are shown for the quarter ending with December; and these will doubtless be greatly increased by additional returns with the returns of marriages for next year (1878).

TABLE I.—Marriages Returned as having been solemnized in Michigan, showing the Number and Per Cent. in each Quarter of the Year, for each of the Years 1872, 1873, 1874, 1875, 1876, and 1877, Corrected for Additional Returns, up to February 1, 1879.

TOTALS, AND MONTES	187	72.	187	73.	18:	74.	18	75.	187	76.	187	77.
WITH WHICH QUARTERS END.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.
Totals	10,752	100.00	11,973	100,00	12,211	100,00	11,703	100,00	11,610	100,00	11,009	100,00
March	2,406	22.38	2,679	22.56	2,938	24.06	2,573	21.99	2,663	22,94	2,633	28.92
June	2,869	22,03	2,695	22,70	2,591	21.22	2,631	22.48	2,571	22.14	2,422	22,00
September	2,633	24.49	8,025	25.48	2,926	23.96	2,748	23.48	2,801	24.18	2,646	24.03
December	8,337	X1.04	3,468	29.21	3,745	80.67	3,749	32,08	3,570	30.75	3,298	29.96
Unknown	7	.06	. 6	.05	11	.09	2	.02	5	.04	10	.09
Average	2,688	25.00	2,968	25.00	8,058	25.00	2,926	25.00	2,903	25.00	2,752	25.00

<sup>•</sup> Including unknown quarter.

Exhibit A is similar in plan to table I., differing from it in showing the number and per cent. of marriages as originally returned and published in the Reports.

EXHIBIT A.—Marriages by Quarters of the Year, showing number and Per Cent. in each Quarter of the Year, for each of the Years 1872, 1873, 1874, 1875, 1876, and 1877, as Originally Returned and published in the Reports.

Totals, and Months	18	72.	18	73.	18	74.	18	75.	18	76.	18	77.
WITH WHICH QUARTERS END.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.
Totals	9,882	100.00	10,574	100,00	11,041	100.00	11,055	100.00	10,858	100.00	11,009	100.00
March	2,326	23.54	2,580	24.39	2,832	25.65	2,519	22.79	2,599	23,94	2,683	28.97
June	2,281	23.08	2,578	24,38	2,483	22.49	2,557	23.18	2,474	22.79	2,422	22.00
September	2,471	25.01	2,774	26.23	2,713	24.57	2,625	28.74	2,677	24.65	2,646	24,08
December	2,797	28.30	2,637	24.94	8,003	27.20	3,353	80.83	8,105	28.60	3,296	29,96
Unknown	7	.07	5	.05	10	.09	1	.01	8	.08	10	.00
Average	2,471	25.00	2,644	25.00	2,760	25.00	2,764	25.00	9,715	25,64	<b>—</b>	1

<sup>·</sup> Including unknown quarter.

inclusive,	
n during the Years 1873 to 1877, inch	days each.
9 Years	onths of 30.44
during the	×
higa	lized
solemnized	, 1879, and Equa
ng been	ruary 1
as havin	o Fel
ges Returned as ha	il returns up t
-Marriages	for additions
XHIBT B.	Corrected )

EXHIBT B.—Marriages Returned as having been solemnized in Michigan during the Corrected for additional returns up to February 1, 1879, and Equalized to Months of	solemnized in 1879, and	zed in and	v Michigan during the Equalized to Months of	higa lized	i dur to M	ing t		Years 1873 to 30.44 days each.	187 day	r3 te	1873 to 1877, days each.		inclusive,	sive,	70
							)N	MONTHS.				•			
YEAR	TOTAL.	Jan.	Feb.	Mar.	Apr. 1	May.	June.	July.	Aug. f	Sept.	Oct.	Nov.	Dec.	Unk.	
Mariages as returned a.	11,873	1,00,	807	898	8	₹	88	1,136	847	1,052	1,185	1,178	1,110	8	
		92.	+2.44	96.	¥.+	<b>26</b> .	+.4	95	8	÷.4	98.	÷.+	8		V
number by which the marriages should be increased or in- minished to equalize them to months of uniform length.	<b>6</b> <sup>1</sup>	-18	+ 70	-16	+ 13	-16	+ 13	ģ	-15	+ 16	<u>-</u>	+ 17	Ŗ		IT.
Marriages, equalized to months of uniform length	11,675	88	877	- 55 - 55	816	88	68	1,106	8	1,067	1,164	1,130	1,000	9	AL I
Marriages as retuned s	13,211	蟊	978	996	963	258	787	1,009	878	1,944	1,159	1,285	1,351	=	STA
		8	+244	8	+.44	3	¥.+	8.	8.	+.4	8	4.4	8	i	AT.
number by which the marriages should be increased of up- 1914 minished to equalize them to months of uniform length	+ 13	-18	8	-17	+ 14	-15	+ 12	-18	-16	+ 16	12-	+ 18	7		IST
Marriages, equalized to months of uniform length	12,226	976	1,063	<u> </u>	976	827	2	8	88	99,	38.	1,833	1,327	=	ics
Marriages as returned	11,703	88	80	86	8	8	808	88	181	976	1,247	1,217	1,285	63	OH
LAys and numericating by which the months should be in- creased or diminished to equal them to uniform longth.  Number by which the memicans should be increased by its		86	+ 2,44	8	¥.÷	8.	¥.+	99.	56.	4.4	99.	#.+	28	Ī	' M
to months of uniform length	+ 2	-16	4 70	-18	+ 14	-18	+ 13	-18	7	+ 14	-33	+ 18	ş		LI C
Marriages, equalized to months of uniform length	11,706	35	872	8	842	<b>*</b>	815	286	773	8	1,224	1,238	1,362	64	HIG
Marriages as returned a.	11,610	3	88	3	- 946	846	128	18,	138	867	1,214	1,138	1,218	10	AN
Created numinished by which are mounts such in the created or diminished to equalize them to uniform length.		.56	+1.44	8	₹.	8,	¥.+	8	8	#.+	8	¥.+	8	ī	, 1
to months of uniform length	-24	-11	+	-15	+ 14	-13	=+	-19	17-	+ 15	81	+17	-15		377.
Marriages, equalized to months of uniform length	11,586	928	906	95	96	831	780	1,012	784	1,007	1,192	1,155	1,196	10	
Marriages as returned a	11,000	176	28	<b>88</b>	206	250	695	88	741	1.08 86,1	1,127	1,004	1,077	2	
Consequent adminished to the to uniform length.  Withhar by which the metric cost should be increased on its		96,-	+2.44	8.	<del>\$</del> .4	8	+.4.	28	8.	7.4	8	÷.4	8		
minished to equalize them to months of uniform length.	+9	-11	÷ 73	-18	+ 13	-15	92 +	-16	-13	91 +	·8	+ 16	84		
Marriages, equalized to months of uniform length	11,018	Ž	8	*	8	80	202	8	82	1,088	1,107	1.0	1,067	2	
					١	l					İ				

1 . 1. Land retains up to February 1, 1879,

Diagram No. 2.

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Exhibit B shows, by months, the number of marriages in Michigan during each of the years 1873-1877, as returned and as equalized to months of uniform length, also some of the steps in the method of equalizing. Before the months of 1877 are equalized, the largest number of marriages appears for October, but after the equalization the largest number appears for November.

The number and proportion of marriages in each month of each of the years 1874–1877 are shown in Table II., the months having the greatest number of marriages being first in order.

TABLE II.—Marriages Returned as having been solemnized in Michigan, by Months, Arranged in Order by Number, Months having the greatest number first, for the Years 1874 to 1877, inclusive. (Corrected, for additional returns, up to February 1, 1879.)

		1874.			1875.			1876.		1	1677.	
B.	Монтив.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.	Мохтив.	Num- ber.	PerCt, of Total
ORDER.	Total	12,211	100.00	Total	11,703	100.00	Total	11,610	100.00	Total	11,009	100.00
1	Dec	1,351	11.06	Dec.	1,285	10.98	Dec	1,218	10.49	Oct	1,127	10.24
2	Nov	1,235	10.11	Oct	1,247	10.65	Oct	1,214	10.46	Nov	1,094	9.94
8	Oct	1,159	9.49	Nov	1,217	10.40	Nov	1,138	9.80	Dec	1,077	9.78
4	Sept	1,044	8.55	July.	985	8,42	July	1,031	8.88	Sept	1,023	9.29
5	July	1,009	8,26	Sept	976	8.34	Sept	992	8.54	Jan	941	8,55
6	Jan	994	8.14	Apr	923	7.93	April	946	8.15	April	907	8,24
7	Feb	978	8.01	Mar	910	7.78	Jan	945	8.14	July	882	8.01
8	Mar	966	7.91	May	900	7.69	Feb	863	7.43	Mar	861	7.83
9	April	962	7.88	Jan	861	7.36	Mar	855	7.86	Feb	831	7.55
10	Aug	873	7.16	June	803	6.86	May	846	7.29	Мау	823	7.47
11	May	842	6.90	Peb	802	6.85	June	779	6.71	Aug	741	6.73
12	June	787	6.44	Aug	787	6.72	Aug	778	6.70	June	692	6.29
	Unk	11	.09	Unk	2	.02	Unk	5	.04	Unk	10	.09
	Aver'ge-	1,018	8.33	Aver'ge •	975	8.33	Aver'ge a	968	8.33	Aver'ge =	917	8.83

<sup>\*</sup> Includes those for unknown month.

TABLE III.—Distinguishing, by Counties and by Months, the number of Marriages returned as having been solemnized in Michigan during the Year ending December 31, 1877.

•			•											
STATE	Year,						Mor	стиз, 1	877.					
COUNTIES.	1877.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk
STATE	11,009	941	631	861	907	823	692	832	741	1,023	1,127	1,094	1,077	10
Alcona	9	1					2			2	1	1	2	
Allegan	266	16	25	27	25	18	20	20	22	25	18	27	23	<b></b>
Alpena	42	4	3	4	8	2	1	5	2	3	4	5	1	
Antrim	23	2	3	3	3	1	1	2	1	1	1	4	1	
Baraga	7					2	2	2		1			<b>.:.</b>	
Barry	210	21	23	10	13	17	12	18	11	18	23	25	24	Ì
Bay	150	7	6	6	13	16	15	16	12	12	18	17	12	ļ
Benzie	22	3	1		2	2	3	1	1	2	5	1	1	<b> </b>
Berrien	356	35	33	23	35	19	21	24	38	87	27	30	32	!
Branch	273	24	29	16	14	21	12	16	20	24	40	27	30	
Calhoun	289	29	22	15	29	17	22	16	18	28	21	83	39	
Cass	175	14	8	9	6	12	4	18	16	21	27	15	25	
Charlovoix	31	4	1		5		2	3	2	6	4	2	2	
Cheboygan	45	8		2	1	2	5	8	2	7	5	13	2	
Chippewa	23				2	2	3	1	5	2	4	4		
Clare	13				1	6	2	<b></b>	1	. 2	1		<b> </b> -	ļ. <b>.</b>
Clinton	173	22	10	12	11	18	6	10	9	18	20	20	17	
Delta	44	1	2		4	7	4	7	4	4	4	6	1	
Eaton	287	28	28	23	13	18	23	24	16	26	27	21	40	
Emmet	26	8	1	<b> </b>	3	1	2		1	4	3	8		
Genesee	350	26	13	20	27	22	26	34	29	33	51	84	25	
Gladwin	4									<b> </b>	,	2	1	
Gr.Traverse	41	2	2	3	8	2	1	4	3	4	5	4	3	
₃ ratiot	126	11	7	10	8	10	8	15	4	11	12	8	22	
ELillsdale	329	30	20	83	31	18	20	27	24	33	36	27	30	
ex oughton	183	21	16	5	17	11	9	14	19	17	17	20	17	
er uron	10⊌	8	5	6	10	12	9	9	10	5	9	16	10	
I m gham	287	24	30	21	14	18	12	26	16	27	35	25	39	
Lonia	254	14	21	28	16	12	14	20	17	23	32	27	29	] :
Iosco	39	2	1	2	2	3	2	3	8	9	7	3	2	
I mabella	49	4	3	5	5	3	4	4	1	4	7	4	5	
Isle Royal_s							<b> </b>							]
Jackson	395	87	21	44	21	28	21	83	21	31	43	52	43	<b> </b> -
Kalamazoo	249	18	17	20	17	20	19	11	18	23	35	23	27	,
		1	•	l i	1		ı	1		ı				•

<sup>\*</sup> No returns of marriages from county clerk for 1877.

TABLE III.—CONTINUED.—Marriages by Counties, by Months.

	Year.			•			Mo	NTUS, 1	1877.					
COUNTIES.	1877.	Jan.	Feb.	Mar.	April.	Мау.	June.	July.	Aug.	Sept.	Oct.	Nov.	Гес.	Unk.
Kalkaska	16		1	1	4				2	1	2	8	2	
Kent	517	43	49	41	46	38	24	32	26	47	54	57	59	1
Koweenaw	25	1	3	1	1	4	1	2		7	2	1	. 2	
Lake	13	1	2	2	1			2	1		2	1	1	
Lapeer	191	7	11	23	19	13	10	21	12	21	18	12	24	
Leelanaw	46	8	1	2	4		3	6	2	8	6	3	3	
Lenawee	401	47	35	88	27	27	25	82	30	36	30	43	31	
Livingston	156	18	22	15	10	13	5	4	9	12	16	18	14	
Mackinac	17		3	•••••	3	2		2	2	1	3	1		
Macomb	228	18	18	13	21	22	14	15	8	27	21	26	25	
Manistee	57	5	· 1	4	8	2	6	8	4	2	2	6	9	
Manitou	6				1				1		2		2	
Marquette	109	15	5	4	10	4	14	9	9	13	11	9	6	
Mason	62	6		6	3	9	2	4	4	5	11	4	8	
Mecosta	88	7	6	6	12	7	2	8	7	11	8	8	6	
Menominee	32	1	8	2	6	3	3	3	8	2	4	1		1
Midland	87	7	2	3	1	4	2	2	1	3	1	4	7	<b>-</b>
Missaukee	7			1	2	1	1		••••			1	1	
Monroe	328	37	25	27	25	26	18	26	20	24	32	31	37	
Montcalm	172	17	24	22	14	13	12	12	15	12	11	7	13	
Muskegon	138	12	6	15	18	13	7	12	9	5	14	16	11	
Newaygo	87	8	5	11	10	5	4	18	7	9	9	2	4	
Oakland	314	28	31	19	19	22	17	26	9	28	24	53	36	2
Oceana	75	2	4	7	9	5	8	10	4	4	4	13	10	
Ogemaw	2	1			1									
Ontonagon	12	. 1				1	3	1	2		1	2	1	
Osceola	77	7	5	6	6	4	4	10	3	6	9	10	7	
Otsego	1							1						
Ottawa	241	13	12	26	26	20	15	32	15	18	21	20	23	
Presque I'l.b				<b></b>										
Roscommon.	2		1	1										
Saginaw	354	27	19	16	41	41	17	82	25	83	43	32	22	
Sanilac	135	12	9	20	10	8	6	8	4	15	12	17	14	
Schoolcraft.	10	<b></b>		3			1	2		2	2			
Shiawassee	183	12	9	16	9	30	13	12	13	21	22	18	28	
St. Clair	<b>S</b> 19	22	24	16	20	22	28	26	23	26	40	29	43	
St. Joseph	313	27	23	80	19	28	31	14	31	25	32	32	21	

These marriages were in returns for 1876. No returns of marriages from county clerk for 1877.

b No returns of marriages from county clerk for 1877,

TABLE III.—CONTINUED.—Marriges by Counties, by Months.

CONTINUE	Year,						Mo	мтив, l	877.					
COUNTIES.	1877.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk
Tuscola	160	18	11	8	21	7	10	18	9	13	21	13	11	<u> </u>
Van Buren	237	13	25	16	25	11	10	16	17	19	27	29	29	
Washtenaw.	291	16	24	27	16	28	21	19	13	23	26	35	43	<b> </b>
Wayne	628	68	61	52	69	69	52	58	51	66	<b>3</b> 9	28	16	,
Wexford	43	4		5	6	1	i	3	4	9	2	5	3	

TABLE IV.—Exhibiting, by Color and by Sex, the Number of Marriages, and the Number and Per Cent. of Total Number of Persons Married in Michigan during the Year 1877, according to the Returns.

		Number		MARRIED,	Number of Per-
COLORS.—1877.	Sex.	of Marriagea 1877.	Number.	Per Cent. of Total Number.	sons who Married those of another Color.
	Total	11,009	22,018	100.00	48
All Colors	Males		11,009	100.00	24
į	Females		11,009	100.60	24
	Total	10,786	21,599	98.10	17
White	Males		10,806	98.16	7
(	Females		10,793	98.04	10
l	Total	78	147	.67	8
Black	Males		78	.71	8
Į	Females		69	.62	
ſ	Total	30	63	.28	8
Mulatto	Males		30	.27	2
į	Females	·····	33	.30	6
1	Total	46	93	.42	15
	Males		46	.42	7
ί	Females		47	.43	8
1	Tota1	69	116	.58	
One or Both Unknown	Males		49	.44	
į.	Females		67	.61	
ſ	Total	108	210	,95	16
Black and Mulatto	Males		108	.98	10
t:	Females		102	.98	6

Table IV. loses much of its former value from the fact that the population is left out of it. The Census of Michigan for 1874 does not furnish any data of the color of inhabitants, and the data of the population in 1870 is thought not to be of much value for comparing with the marriages in 1877. The white inhabitants composed 98.60 per cent. of the total population of this State in 1870, and in 1877, 98.10 per cent. of all the persons married were reported to be white; and it may thus be seen that the proportion of white

persons married in 1877 was greater than the proportion of white inhabitants in 1870. This is the nearest approach we can make in this report to a comparison of the marriage-rate by color of persons married.

TABLE V.—Exhibiting for the State and Counties, the Number of Marriages
Returned as having been Solemnized in Michigan during the Year 1877, the Number of Couples of White Persons, and by Color the Number of Marriages where one or both parties were other than White.

		Cor	OR OF P	ersons Ma	RBIED, 18	377, STATE	BY COUPL	ES.
STATE AND COUNTIES.	Marriages, 1877.	White.	Black.	Mulatto.	Indian.	FEMALE UNE.	MALE UNK.	Both
COUNTIES.		w ппе.	Black.	Mulacto.	Indian.	Male White.	Female White.	Unknown
State	11,009	a 10,786	b 78	c 80	d 46	• 20	4	f 45
Alcona	9	9						
Allegan	260	235	E 4		h 1	14		19
Alpena	42	42						
Antrim	28	23		•				
Baraga	7	5				11		j :
Barry	210	210						
Bay	150	146		1	8			
Benzie	22	22			<b> </b> -			
Berrien	356	349	1	2	k 1	2		
Branch	273	272	1					
Calhoun	289	1 284	m 2	1	1			} :
Cass	175	165	n 10					
Charlevoix	31	26			5	<b></b>		
Cheboygan	45	45	ļ			l !	 	
Chippewa	23	o 18			Р 5			
Clare	13	13						ļ
Clinton	173	172			ļ			
Delta	44	વ 42	1		k 1			

a Includes 4 couples, male White, female Indian; 3 couples, male White, female White and Indian; 3 couples, male White, female White and Indian; 3 couples, male White, female White and Indian; 5 funcludes 10 couples "Colored;" 6 couples, male Black, female Milatto; 1 couple, male Black, female Mulatto; 1 couple, male Black, female Mulatto; 1 couple, male Black, female Mulatto; 1 couple, male Black, female White, and 1 couple, male Black, female White, and 1 couple, male Mulatto, female White, female unknown, and 1 couples, male Mulatto, female unknown, and 1 couples, male White and Indian, female White; 4 couples, male White and Indian, female White; 4 couples, male White and Indian, female White; 4 couples, male White and Indian, female White; 1 couple, male Black, female White and Indian, female White; 1 couple, male Mulatn, female White; 1 couple, male Mulatn, female White and Indian, female White; 1 couple, male White and Indian, female White, female White and Indian, female White, female White, female Indian, female Indi

TABLE V.—CONTINUED.—Marriages in 1877, by Counties, by Color.

COLLYBIA	Marriages,		1			FRMALE	MALE	
COUNTIES.	1877.	White.	Black.	Mulatto.	Indian.	Male White.	Female White.	Both Unknown
Eaton	287	284	. 2			1		
Emmet	26	18			ь 8			
Genesee	350	344	6					
Gladwin	4	4						
Grand Traverse	41	41						
Gratiot	126	126						
Hillsdale	329	328				1		
Houghton	183	• 183						
Huron	109	109						<del>-</del>
Ingham	287	286		1				<b></b>
Ionia	254	253						r
Iosco	39	39						
Isabella	49	d 44	2		3	·•••		
Isle Royal•	•							
Jackson	395	387	f 8	1				
Kalamazoo	249	245	4					
Kalkaska	16	16						
Kent	517	511	4	1	ļ			1
Keweenaw	25	25						
Lake	13	13						
Lapeer	191	189	1	1		····		
Leelanaw	46	45			1			
Lenawee	401	400	. 1				•••••	
Livingston	156	156						
Mackinac	17	d 12			8.5	<b> </b>		
Macomb	228	228						
Manistee	57	. 57						
Manitou	6	6						
Marquette	109	109					•••••	
Mason	62	62						
Mecosta	88	85	2				1	

<sup>\*</sup> Includes 1 couple, male Black, female Mulatto.

b Includes 3 couples, male White and Indian, female Indian.

\* Includes one couple, male White, female White and Indian.

4 Includes one couple, male White, female Indian.

4 Includes one couple, male White, female Indian.

TABLE V.—Continued.—Marriages in 1877, by Counties, by Color.

		COL	OR OF PR	ESUNS MAR	ELED, 15	11, STATED	BY COUPL	.E8.
COUNTIES.	Marriages, 1877.					FRMALE UNK.	MALE Unk.	Both
		White.	Black.	Mulatto.	Indian.	Male White.	Female White.	Unknown
Menominee	82	31			1			
Midland	37	37						
Missaukee	7	7					<b> </b>	
Monroe	323	326	2					
Montcalm	172	171		• 1				
Muskegon	138	136					9	
Newaygo	87	87						
Oakland	814	312	1				1	
Oceana	75	71			64			
Ogemaw	2	2						
Ontonagon	12	12						
Osceola	77	77						
Otsego	1	1						
Ottawa	241	240	1					
Presque Isle4								
Roscommon	2	2						
Saginaw	854	842	• 5	4	f B			
Sanilac	135	135						
Schoolcraft	10	8			2			
Shiawassee	183	183						
St. Clair	319	814	1		<b>61</b>			3
St. Joseph	313	313						
Tuscols	160	159		. 1				
Van Buren	237	236		1				
Washtenaw	291	280	h 4	13	f1	1		2
Wayne	628	578	J 20	a 12				18
Wexford	43	48	l					

Exhibit 1 shows by nativity, the number and proportion of brides and bridegrooms in this State in 1877, according to the returns, and the manner of their union by number. It is shown that 71.21 per cent. of all the males

a Includes 1 couple, male Mulatto, female White.

b Includes 1 couple, male Indian, female White; and 1 couple, male White and Indian, female White; and 1 couple, male White and Indian, female "% White, % Indian, % African."

c These marriages were returned in 1876. No returns from county clerk for 1877.

d No returns of marriages from county clerk for 1877.

c Includes 3 couples "Colored," and 1 couple, male Black, female Mulatto.

fincludes 1 couple, male White and Indian, female "Colored." Includes 1 couple Mulatto, female unknown, and 1 couple, male "Colored," female White, and 1 couple, male "Colored," female White, and 1 couple, male "Colored," female White, and 1 couple, male "Colored," female White, and 1 couple, male "Colored," female unknown.

married in 1877 were native-born, 27.53 per cent. were foreign-born, and 1.25 per cent. were of unknown nativity. Of the females, 76.69 per cent. were native-born, 21.57 per cent. were foreign-born, and 1.73 per cent. were of unknown nativity. Of the native-born persons married there was quite an excess of males over females (5.48 per cent.), and the excess of foreign-born males over foreign-born females was 5.96 per cent.

EXHIBIT 1.—By Nativity, the Number and Per Cent. of Brides and of Bridegrooms Returned as having been married in Michigan during the Year ending December 31, 1877, and by number, the manner of their Union by Nativity.

	В	RIDES, 18	77.	BRIDEG 1877	
BRIDEGROOMS AND BRIDES, NATIVITY SPECIFIED.	Native.	Foreign.	Un- known.	Totals of each Na- tivity, and of all Nativi- ties.	Per Cent. of each Nativi- ty.
Native	6,972	791	77	7,840	71,21
Bridegrooms { Foreign	1,437	1,575	19	3,031	27,53
Unknown	34	9	93	138	1.25
( Whole No. of each nativity and total	8,443	2,375	191	11,009	
Brides? ( Per cent. of each nativity and total.	76.69	21.57	1.73		100.00

TABLE VI.—Exhibiting, by Sex, the Nativity of Persons returned as having been Married in Michigan during the Year 1877.

	MARRIA	эша, 1877.	PERSO	NS MARRIE	D, 1877.
NATIVITY.		Per Cent.		Number.	
	Number.	of Total.	Total.	Males.	Females.
Total	11,009	100,C0	22,018	11,009	11,009
Native	6,972	63,83	16,283	7,840	8,443
Foreign	1,575	14,31	5,406	3,031	2,875
Foreign Male and Native Female	1,437	13.05			
Foreign Female and Native Male	791	7.18			
Uaknown	a 234	2,13	829	138	191
One or Both Native	9,811	84.58			
One or Both Foreign	3,831	84,80			

<sup>\*</sup> Includes cases where nativity of either person was unknown.

Table VII. shows the number of persons married in 1877 at each age under 21 years, and at each period of age for those aged 21 years and over. At the period of age between 21 and 25 years, the proportions of the two sexes are nearer equal than at any other age; and the largest proportion of persons married of each sex were between the ages of 21 and 25 years.

TABLE VII.—By Sex and Periods of Age, the Number and Per Cent. of Total Number of Persons Married at each Age and Period of Age during the Year 1877; also the Per Cent. of each Sex at each Age and Period of Age to the Total Number of Both Sexes.

	•		PE	SONS MARRI	ED, 1877.		
AGES IN YEARS	Total		MALES.			FRMALE	3.
AND PERIODS.	Number of Persons Married.	Number Married.	Per Cent. of Total Marri- ages.	Per Cent, of Persons Married at Correspond- ing Ages.	Number Married.	Per Cent. of Total Marri- ages.	Per Cent. of Persons Married at Correspond- ing Ages.
All ages	22,018	11,009	100.00	50,00	11,009	100.00	50,00
13	3				8	.03	100,00
14	26		<b></b>		26	.24	100.00
15	109		<b> </b>		109	.99	100.90
16	686	2	.02	.29	684	6.21	99.71
17	882	9	.08	1.02	873	7.93	98,98
18	1,364	58	.53	4.25	1,306	11.86	95.75
19	1,397	193	1.75	13,86	1,204	10,94	86, 18
20	1,634	488	4.43	29,87	1,146	10.41	70.18
21 to 25	6,765	3,920	85,61	57.92	2,845	25.84	42.11
25 to 30	4,618	3,327	80.22	72.05	1,291	11.78	27,96
30 to 85	1,767	1,229	11.16	69.55	538	4,89	30.45
35 to 40	938	586	5.32	62.47	352	8.20	87 58
40 to 45	576	376	3.42	65.28	200	1.82	84.79
45 to 50	422	265	2.41	62.80	157	1.42	87.20
50 to 55	268	186	1.69	69.40	82	.74	30,60
55 to 60	198	132	1.20	66.67	66	.60	88.88
60 to 65	127	94	.85	74.02	33	.30	25 98
65 to 70	79	61	.55	77,92	18	.16	22,78
70 to 75	81	28	.25	90,32	3	.03	9,68
75 to 80	10	10	.09	100.00			
80 and over							
Unknown	118	45	.41	38,14	78	.66	61.86
Under 15	29				29	.25	100.00
15 to 20	4,438	262	2.88	5,90	4,176	87.93	94,30
20 to 25	8,399	4,408	40.04	52.48	8,991	36,95	47.92

EXHIBIT 2.—Number of Persons Returned as having been Married in Michigan in 1877, by Sex, and Excess of the Sexes, by Age in Years.

9.	PERSON	MARRIE	D IN 1877.	Exc	Ess.	£.	PERSONS	MARRIE	D IN 1877.	Exc	ESS.
Ages in Years.	Total.	Males.	Fe- males.	Males.	Fe- males.	Ages in Years.	Total.	Males.	Fe- males.	Males.	Fe- males.
All ages	22,018	11,009	11,009			46	98	48	45	3	
						47	80	53	27	26	
13	3		3		3	48	80	49	31	18	ļ
14	26		26		26	49	54	36	18	18	ļ
15	109		109		109	50	87	56	81	25	ļ. <b></b> .
16	686	2	684		682	51	46	83	18	20	ļ
17	882	9	878		864	52	52	40	12	28	. <b></b>
18	1,364	58	1,306		1,248	53	46	81	15	16	ļ
19	1,397	193	1,204		1,011	54	87	26	11	15	<b> </b>
20	1,634	488	1,146		658	55	54	34	20	14	ļ
21	1,871	962	. 909	53		56	49	83	16	17	
22	1,802	978	829	144		57	33	26	7	19	<b> </b>
23	1,585	984	601	883		58	81	19	12	7	
24	1,507	1,001	506	495		59	81	20	11	9	<b> </b>
25	1,276	882	394	488	•••••	60	88	29	ย	20	
25	1,078	780	298	482		61	22	13	9	4	
27	919	695	224	471		62	28	19	7	12	<u></u>
28	508	596	212	884		68	22	16	6	10	
29	587	874	163	211		64	19	17	2	15	
30	563	400	163	237		65	25	21	4	17	
31	302	212	90	192		66	20)	15	5	10	
32	875	272	103	169		67	16	12	4	8	
13	281	185	96	89		68	12	8	4	4	
34	246	160	86	74		69	6	5	1	4	
35	258	167	86	81		70	9	9		9	
36	210	187	73	64		71	5	5		5	
37	164	97	67	30		72	5	4	1	8	
38	185	111	74	87		73	6	4	2	2	
20	128	74	52	22		74	6	6		6	
40	174	122	52	79		75	8	8		3	
41	90	53	87	16		76	2	2		2	
12	125	79	46	33		77	1	1	<b></b>	1	
43	71	44	27	17		78	2	2		2	
4	116	78	88	40		79	2	2		3	
45	115	79	86	43		Unk	118	45	78		28

## VITAL STATISTICS OF MICHIGAN, 1877.

	89	NATIVI	TY OF	PERSO	N8 MA	RRIED,	NATIVITY OF PERSONS MARRIED, 1877, STATED BY COUPLES.	ATED 1	T Cour	LES.		N	Manniages at Different Ages, Stated in Periods of Yrabs, 1877.	DES AT	DIFF	RENT	AGE	8, 81	ATED	NI.	PERI	SGO	A do	KABS,	187
STATE	of Coupl	dve.	-ugja.	For- eign Males	For- eign-	1	FEMALES UNKNOWN.	UNK	MALES UNKNOWK.	'UMO	SEX	Cp-	50	83	80	13	40	- 13	20	123	99	13	02	7.5	.797.
COUNTIES	ted,	18K	For	Na-	=	E.	Males.	Fen	Females.	Jul	STATED.	der	to	to	to	to	to	2	01	to	10	10	01	01	o pr
	Marr	вогр	вогр	Fe- males.	- 7	Na-	For- eign.	Na. tive.	For-	Both		.08	23.	30.	33	40.	45.	20.	20.	90	65.	10.	75.	80.	a 08
STATE	11,009	6,972	1,575	1,437	791	#	A 19	75	9	292	Total Maies Females.	4,467 262 4,205	8,399 4,408 3,991	4,618 3,327 1,291	1,767 1,229 538	938 558 352	576 376 200	492 265 157	855	133	FEE	79 61 18	280	100	111
Alcona	G	60	-	1	-						Males Females.	1	80 63	21	7	04.77			111			111	11	111	11
Allegan	566	193	21	13	15	1	1			- 1	Males	104	92	25.25	#°	25 64	20	6.9	0110	401	00-	21	-	-11	11
Alpena	43	90	25	9	4	-	1			- [	Males	16	10	11 6	00 27	10.4	00 }	-00	-	11	11	11	11	11	H
Antrim	83	6	9	60	61					-	Males	11	16	1-01	10	-	11	-01	-1	11	11	11	11		H
Baraga	7	-	20	60			1		i	1	Malos	1	80 10	60	1	11	11	11	11	11	11	11	11	11	11
Barry	210	171	.00	56	10	1				1	Males	96	255	18	11.88	928	84	1-01	*-	00 01	11	61-	-	11	11
Bay	150	55	8	255	14	7			1	- 1	Males	60 25	35	12.	100	00 10	F- 90	100	C1-	- 1		11	11	11	11
Benzie	31	11	-	61	60	- 1		1			Males	11	oo ca	94	7	11	ir	-	i	-	11	+	11	11	11
Borrien	356	285	GI	83	15	4	1	1		*	Males	160	138	38	36	42	712	~=	91	401		11	00	11	11
Branch	273	237	13	14	1	1		-		1	Males	117	130	283	80	-100	000	0100	0	401	00 F	60	- [	11	11
Calhoun	980	991	10		;		_	0		,	Males	17	117	ā	02	2	;	0	•						

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18	201	17	<b>a</b> e	80-	52	98	88	40	105	<b>4</b>	6.9	31	88	83	86	<b>3</b> 55	ica."
22	42	928	9	410	88	35	ន្តដ	9 0	141	61	17.8	53	168 118	528	85	98	I couple "America."
-8		27	11	7	78	81	131	-2	120	-	12	61.2	138	75	-28	98	old no
Males	Males	Males	Males	Males Females.	Males	Males	Males	Males	Males	Males Females.	Males Females.	Males Females.	Males	Males Females.	Males Females.	Males. Females.	d I co
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	9:	NATIVITY		OF PERSONS MARRIED, 1877, STATED BY COUPLES.	NS MAN	RRIED,	1877, ST	ATED B	Y Cov	STES,	•		Marriages at Different Ages, Stated in Periods of Years, 1877.	OES AT	DIFFER	EXT	AGES,	STAT	E II	PERI	800	YY	ABS,	1877.	
	Couple 877.	.97	-uSp	For-	For-	FEN	FEMALES UNKNOWN.	NA UNKU	MALES UNKNOWN.	'TALO	SEX	ÇB-	8	ង	8					8			- 25	.19	
COUNTIES.	10 19 [ 6d, ]	Net	Fore	Males,	P4		Males.	Fem	Females.	uakuU	STATED.	der	3	\$	\$	\$		5 5	2	2	2	<del></del> -	2	AO PU	UMOU
	Namb Marr	Воги	Both	Fe- males.	-	Na- tive	For- eign.	Na- tive.	For-	Both		50.	ន់	83	<b>ಪ</b>	<u>ş</u>	<u>द</u>	.83 .83	<u>s</u>	8.	<u> </u>	5.	88	ta 08	un I
Ionia	254	193	10	30	71	60	•		1	4	Males Females.	18,7	3 8	88	28	11 8	- m	200	810		11	<del></del>			
Iosco	8	00	15	6	9			-		1	Males Females.	72	28	ñα	gn 64	09 09	- ;	-:	<u>      </u>	<u> </u>	<u> </u>	<u> </u>			
Isabeila	6	25	01	2	00	1		-		*	Males Females.	87	88	84	400	•	<del></del>		$\frac{11}{11}$	<u> </u>	<u> </u>		11		01
Isle Royal											Males					Ħ		$\frac{11}{11}$	-		<u> </u>		<u> </u>		
Jackson	398	303	98	42	17	10	-	-		-	Males Females.	8 9	25	88	<b>₽</b> 8	<b>79.</b>	21 00	0 <del>1</del>	88	87	7	<del>- :</del>	_!!		
Kalamazoo	549	196	14	96	90	60	1	1		O.	Males Females.	478	88	\$4	80	52 ®	26	410	6161	61	<u> </u>	<u>∞ i</u>			
Kalkaska	16	1	60	C1	1			-		01	Males Females.	6	664	<b>80</b> 61	400	61	<del>- ; ;</del>	$\dashv$	<u> </u>	<u> </u>	<del>!!</del>		<u> </u>		
Kent	517	298	90	1	9	9		00	- [	90	Males Females.	185	928	162	32	75	22	22			* !	<u> </u>			o1 -#
Кежеепа ж	ង	61	18	10						i	Males Females.	13	92	r-4	7	<u> </u>	-		<u>-                                      </u>	- !!					
Lake.	52	10	-	+	7			1		-11	Males Fomales.		00 e4	-	-			11		<u>- i</u>		<u> </u>	11		
Lapoer	181	88	88	30	58	ol		1	1	-	MalesFemales.	2000	87	22	<b>8</b> 2	80	40	61 61		en :		<u>-                                    </u>			
Leelana w	\$	25	=		0					1	Males	47	22	0.10	==	400	01			<u>-:</u>		<u> </u>	Щ.	Щ.	<u> </u>

# MARRIAGES—BY COUNTIES, NATIVITY, SEX, AND AGE. 85

Lenaw66	107	22	2	8	52	10	7	-		•	Males	152	12.8	55 4.0	32	22	71 7		80 80	∞ <b>€</b>	<b></b>	•=	=	īï	<b>60</b>
Livingston	158	138	69	2	-	-	-	:		-	Males	87	88	28	Si a	∞ ~		1000		01 09	<b>+</b>	-	<del>- i</del>	<del>-</del>	<b>-</b> :
Mackinao	11	O.	_	•	01		i	-	:	-	Males	6	20	Ti	69	<b>01</b>				11	11		<u> </u>	<u> </u>	: :
Macomb	84	83	88	*	22					-	Males	28	32.33	88	82	= = = = = = = = = = = = = = = = = = =	60	<b>7</b> -	∞~	٠.	90		Ħ	::	
Manistee	67	2	8	80	80				, 1		Males	181	218	<b>2</b> 2	20	1010	~ m			11	II		$\overrightarrow{\parallel}$	<del>ii</del>	11
Maniton	•	61	H	-	69					-	Males	80	<b>→∞</b>	69	ii			11					$\frac{\cdot \cdot}{11}$	<del>ii</del>	;;
Marquette	90	25	28	3	13		7			7	Males	°7	83	28	81-	es es		-	-	-	1		Ħ	$\dashv $	11
Mason	8	8	9	8	ю		29		-		Males	o4 88	87	82.4	=6	; F0 09	-:	-	10 04	11		II	$\overrightarrow{\Pi}$	Ħ	11
Mecosta	88	25	11	=	₩,			i		-	Males Females.	~ %	88	20	₩. <b>→</b>	<b>60</b>		- !		-		-	$\overrightarrow{\parallel}$	Ħ	<u> </u>
Menominee	æ	ю	2	7	-						Males Females.	-=	∞ <u>e</u>	200	<b>∞</b> 4	G8	- 04			11		11	前	$\frac{\cdot}{11}$	<b>-</b> :
Midland	87	8	23	=	9				i		Males	-81	00	2-	r-10		- R		- :			11	Ħ	Ħ	11
Kissankoe	~	-	•		¢1	i				-	Males		64	4~	61	-				11		11	$\overrightarrow{\Pi}$	<del>     </del>	;;
106	88	88	88	3	02	63		-		-	Males	98	22	£ 53	87	11 01	20		∞~	4		11	$\dashv \dagger$	Ħ	; ;
oslm	172	Ħ	29	92	22	-	-	-		61	Males	∞ 23	22	22	80	20	36	4-	-	es 64			TÌ		-
uo.Je	88	8	2	38	=			-		-	Males Females.	≈8	42	22	28	<b>∞</b> →		٥٠ ;		-		11	$\ddot{1}$	11	04 07
2	84	3		=	<b>60</b>		-			61	Males Females.	80 gg	88	£6	တယ	60 63	<del>••••</del>	01	-				<del>- ; ;</del>		<u>:-</u>
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	814	883	13	27	18	10		ю.	-	<b>60</b>	Males.	98	<b>8</b> 20	84	18	6 6 18		n4	& 80	10~	401	$\overrightarrow{\parallel}$	61		22
tarat	s of m	turns of marriages	s fron	from county clerk for 1877.	ty cle	rk for	1877.	413	b 1 Male "America."	Ame	}	Conp	le "A	c 1 Couple "America."	۽,										1

TABLE VIII.—Continued.—Marriages by Counties, Nativity, and Periods of Age.

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1877.	.10	vo 1	па 08								11					
PB.	55	2	<u>&amp;</u>									_				
	<u>۾</u>	2	Ę	<u>                                     </u>					61		<u> </u>		-			
98 O	8	\$	6	-	11			11	84	11					_	<b>~</b>
I I	8	3	65.	63			-		1			1	64		- 01	1
N N	3	5	3	61-	1		6	- ; ;	7		11	C) 01	61	-	8	8-
ATA	8	\$	3		11		∞ ⊷	11	9-	11		<b>6</b> 80	84	-	<b>60</b> 61	<b>~</b> -
8,87	\$	\$	દ્ધ	oo <del>4</del>		11	<b>8</b> -	11	7	11	- 11	10 04		11	eo e4	<b>20</b>
AGE	\$	\$	\$	- w	11	1	<b>6</b> 00	11	80 90	11	11	200	1004	11	C7 C7	24
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Marriages at Different Ages, Stated in Periods of Years, 1877.	8	\$	ૹ	20		60	æ øs		£3 ∞			38			2→	<b>8</b> =
GES AT	83	\$	8	84	-	10	97		22		1	106	8=	ю	88	<b>38</b>
MARRIA	<b>&amp;</b>	2	ន់	ង្គ		41-	<b>35</b>	-	83		-	127 181	84	40	88	828
	\$	der	& 	- 8	-	10	~ %		- 76			134	22	9	**8	22
	SEX	STATED.		Males Females.	Males Females.	ales.	ales.	ales.	Males Females.	Males Females.	Ries.	ales.	Males	Males Females.	ales.	ales
		ST		Mal	Mal	Mal	Mal Fem	Male Fem	Male	Male Fem	Male	Males Females.	Mal	Mal	Mal Fem	Male Fem
	nown.		प्रश्व	Mai	Mal Fem	Males	Males Females.	Males Females.	1 Fem	Fem	Males Females.	Male	Mal Fem	1 Fem	Males	6 Kales
COUPLES.		Unk	E FOR	Mal For	Mal Mal	Kem		Male Fem		Kem	Kem		;	1 Mal		
ATED BY COUPLES.	MALES UNENOWN.			Mal	Male Fem	1		Male Fem		Male	-		;	-	64	<u> </u>
877, STATED BY COUPLES.	MALES UNKNOWN.	Females.	For eign.	Mal	Mal					Yale	-			1 1	1 - 3	<u> </u>
BIED, 1877, STATED BY COUPLES.		Males. Females.	Na- For Na- For tive.		Mal Hall Fem			Male Fem		Male Fem	-			1	1 3	<u> </u>
68 MARRIED, 1877, STATED BY COUPLES.	For- Frances Males Common.	malos, Males. Females.	Na. For Na. For tive eign.		Mal.		1			Nale Fem	-	1 1 1	1	1 1	1	1 1 8 6
Persons Married, 1877, Stated by Couples.	FEMALES MALES UNKNOWN.	malos, Males. Females.	Na- For Na- For tive.	1	1 Mal		1		1	Male Name of the N	-	R 1 1 1	1	1 1	1 2	8 1 1 8
IIY OF PERSONS MARRIED, 1877, STATED BY COUPLES.	For- Frances Males Common.	Males, Fe-	males. Males. tive eign. Na. Formales.	7 1	Mai		10		19 1		-	46 8 1 1 1	18	6	11 1 2	43 8 1 1 9 6
NATIVITY OF PERSONS MARRIED, 1877, STATED BY COUPLES.	E For For Tranders Males	Nates, re- Nates, re- Nates, Males, Remales, D	males. Males. tive eign. Na. Formales.	9 7 1	1 1 Mal	20	13 10 1		48 19 1			75 45 6 1 1 1	1	6	90 11 1 2	78 43 8 1 1 8 6
NATIVITY	E For For Tranders Males	No. Males, Males, Dales, University	Here Hales Hales tive eign.	4 9 7 1	2 1 1		21 13 10 1		19 11 11 11 11 11 11 11 11 11 11 11 11 1			97 75 46 8 1 1 1	18 1	3 2 1	12 20 11 1 2	88 79 43 8 1 1 9 6

2 8	64 64		01 01	# C	61 9		
G		MG.	55	10.01	20	69 69	
90	-	401	E2 00		01 01	1	
60	12	90	20	77	40	40	
2	32	20	12	<b>\$</b> 9	22	60 GN	
-	:5	27	28	82	220	18	
2	55	22	 88	107	212 253	ä∞	
	-8	~88	<b>68</b>	<b>80</b> 153	175	35	
	Males	Males	Males Females.	Malos	Males	Males	nerica."
	<u>:</u>			~	1 6 21		\$
	<u>!</u>						onble
			94	01		•	17
		<u> </u>					1
_					_ <u>;</u> _		1877.
,		60	- 64	-	89		rk for 1877.
		80	2 3	19 4		Males Females.	ty clerk for 1877.
	<b>8</b>	••	18 7 2 1		*		a county clerk for 1877.
11 02 71	R	25 25 25 25 25 25 25 25 25 25 25 25 25 2	1 18 7 2 1	<b>9</b>	63		es from county clerk for 1877. 1 Couple "America."
1 100 11 100 1	R	25 25 25 25 25 25 25 25 25 25 25 25 25 2	266 1 18 7 2 1	49 19 4	271 176 93 62 8	13 8 1	arriages from county clerk for 1877.
1   4   30   11   500	St. Joseph   813   301   10   10   10   10   10   10	25 25 25 25 25 25 25 25 25 25 25 25 25 2		88 49 19 4	176 93 62 8	8	No returns of marriages from county clerk for 1877.

TABLE IX.—Exhibiting, for the State and Counties, the Total Number, and Number of each Sex under 21 years of Age; also the Number of each Sex at each Age under that of 21 years, Returned as having been Married in Michigan during the year ending December 31, 1877.

STATE		ONS MA		Agr	es of	MAL	ES, 1	877.		AG	ES OF 1	FRMA	LES,	1877.		
AND		AGE, 1		ď.	en.	en.	teen.a	п.я	3.	ee p.	en.	teen,	b.	B.B	een.s	en.a
COUNTIES.	Total.	Males.	Fe- males.	Twenty	Nineteen	Elghteen.	Seventeen.	Sixteen."	Twenty.	Nineteen	Eighteen	Seventeen	Stxteen	Fifteen.	Fourteen	Thirteen.*
STATE	6,100	749	5,351	487	193	58	9	2	1,146	1,204	1,806	S73	684	109	26	
Alcona	8	2	6	2					2	1	1	1	1			
Allogan	155	11	144	6	3	1	1		40	81	88	19	10	6		
Aipena	20	2	18	1	1				2	2	2	7	4		1	
Antrim	17	2	15	1	1				4	3	8	4	1	****		
Baraga	2		2		(***				1	1		****	****			
Barry	184	14	120	9	3	1	1		24	25	24	30	13	3	1	
Вау	80	8	72	5	8				10	10	90	11	19	1	1	
Benzle	12	8	9	2			1		2	1	2	2	1		1	
Berrien	225	29	196	17	9	3			56	46	42	27	21	3		
Branch	176	26	150	22	3		1		33	40	37	21	18	1		
Calhoun	151	80	121	16	9	5			32	20	41	11	15	2		
Dasa	99	18	81	12	5	1			18	19	16	16	10	1		١
Dharlevoix	18	1	17		1				3	1.	8	6	2	1	1	١.
Cheboygan	29	1	23		1				1	7	9	6	4	1		
Dhippewa	15		15						4	2	1	6	1	1		
Olare	10		10		****				3		1	1	4	1		١.
Olinton	114	15	99	10	,2	3			21	18	28	16	16			
Delta	31	1	30	1					8	1	4	8	10	8	1	١
Eaton	184	22	162	13	5	4		1	31	41	87	26	23	4		-
Emmet	17	3	14	2	1			1	4	2	8	1	3		1	-
Genesec	197	34	163	23	10	1			34	31	43	29	22	2	2	-
Gladwin	1		. 1			***				<b> </b>				1		
Grand Traverse.	23	1	22	1				1	1	5	2	7	5	2		
Gratiot	90	10	80	8		2			16	11	21	11	17	4		
Hillsdale	190	29	161	18	0	2			26	45	39	27	21	3		-
Houghton	92	5	87	8	2				16	16	20	17	13	4	1	-
<b>H</b> uron	66	5	61	4	1				11	8	14	16	9	2	1	1-
Ingham	139	15	124	9	6				26	22	80	27	15	3		1
Ionia	146	16	130	9	3	4			25	34	29	13	24	5		-
Iosco	19	8	16	2	1				6	4	1	3		1	1	-
Isabella	82	2	80		1		1		6	4	4	9	6	1		1.

a Not legal marriages. For law and penalty to persons solemnizing, see sections (4719), (4720), (4728), and (4729), Compiled Laws of 1671, pages 1462 and 1463.

TABLE IX.—Continued.—Persons Married under 21 Years of Age.

		DES MA		Ag	es or	MAI	es, 1	877.	)	AG	ES OF	FEM	LES	, 1877	·	
COUNTIES.	Total.	Males.	Fe- males.	Twenty.	Mineteen.	Eighteen.	Seventeen.*	Sixteen.a	Twenty.	Nineteen.	Elghteen.	Seventeen.	Sixteen.	Fifteen,*	Fourteen,*	Thirteen.*
Isle Royalb																
Jackson	219	27	192	19	5	8			52	44	51	23	20	1	1	
Kalamazoo	127	20	107	16	4				20	<b>3</b> 6	25	12		3		
Kalkaska	10	1	9	1						4	2	1	2			
Kent	272	35	237	21	11	2	1		45	59	60	41	29	2	1	
Keweenaw	14		14						1	1	3	6	3			
Lake	10	2	8	1	1				1	1	2	2	2			
Lapeer	106	14	92	9	5				20	12	26	16	17	1		
Leelanaw	25	4	21	3		1			4	2	5	6	3	1		
Lenawee	216	34	182	23	9		2		40	49	42	30	18	3		
Livingston	57	4	58	3	1				16	10	13	8	5	1		
Mackinac	15	8	12	3					8	2	5				1	
Macomb	181	19	112	12	4	2	1		26	25	82	16	12	1		
Manistee	21	3	18	2	1				5	5	4	2		1		
Manitou	9	8	6	3					8	1	1					
Marquette	55	8	47	5	2	1			6	10	16	7	6	1	1	
Mason	85	4	31	2	2				8	5	9	6	6	2		
Mecosta	55	8	47	5	3				13	5	15	4	9	1		
Menominee	14	1	13			1			2	2	2	4	3			
Midland	23	1	22					1		8	4	5	4	1		
Missaukee	4	<b> </b>	4						1		1		2			
Monroe	181	26	155	17	7	2			29	82	49	25	19	1		
Montcalm	100	9	91	6	2	1			9	19	20	15	25	1	2	
Muskegon	76	7	69	4	2	1			19	20	13	10	6	1		_
Newaygo	50	7	43	4	2			1	5	7	11	6		2	1	
Oakland	155	20	135	14	5	1			36	36	85	17	10	1		
Oceana	51	5	46	4		1			8	7	6	13	12			
Ogemawc	1		1						<b> </b>		1					
Ontonagon	6		6						1	2	1	2				
Osceola	40	5	35	2	2	1			3	4	13	8		3		
Otsego	1		1									1				1
Ottawa	140	15	125	8	6	1			81	23	35	19	17			
Presque Isle																
Roscommon		1	1	1	in			1		1				1		

<sup>•</sup> Not legal marriages. For law and penalty to persons solemnizing, see sections (4719), (4720), (4739), Compiled Laws of 1871, pages 1462 and 1463.
• No returns of marriages from county clerk for 1877.
• This marriage was in returns for 1876. No returns of marriages from county clerk for 1877.

TABLE IX.—CONTINUED.—Persons Married under 21 Years of Age.

		one Ma er 21 Y		AG	<b>E</b> 8 01	P MAI	LES, I	877.		AGI	ES OF	FEMA	LES,	1877.		
COUNTIES.		AGE, 1		4	ii.	p.	en.s	4		ė	H	en.		1	9.0	1 2
	Total.	Males.	Fe- males.	Twenty.	Nineteen.	Eighteen,	Seventeen	Sixteen.a	Twenty.	Ninetren	Elghteen.	Seventeen.	Sixteen.	Fifteen.a	Fourteen.a	Thirteen
Saginaw	187	16	171	12	2	2		H	37	44	36	30	20	2	9	
Sanilac	91	8	83	5	2	1			12	90	23	19	7	2		
Schoolcraft	7		7	•					1	1	3	1	1			
Shiawassee	98	7	91	5	2				11	33	19	10	13	4	1	
St. Clair	195	29	156	19	7	3			44	38	41	19	11	3		
St. Joseph	159	25	134	17	5	3			35	37	35	18	9			
Tuscola	115	15	100	8	7				12	22	23	22	15	6		
Van Buren	151	20	131	14	3	3			31	28	22	28	12	6	4	
Washtenaw	110	10	100	7	3				35	24	23	10	7	1	****	
Wayne	258	25	233	16	8	1		<b></b> .	58	71	60	30	14			.,.,
Wexford	26		26						2	4	4	8	7	1		

a Not legal marriages. For law and penalty to persons solemnizing, see sections (4719), (4720), 4725), and (4729), Compiled Laws of 1871, pages 1462 and 1463.

### MANNER OF UNION BY AGES.

Table X. shows the number of brides and of bridegrooms at each period of age, and the manner of their union. The last column but one to the right contains the number of bridegrooms at each period of age. The number of males married aged under 20 years, as shown in this column, was 262; and 214 of these married females under 20 years of age, 44 married females aged 20 to 25 years, 2 married females aged 25 to 30 years, 1 married a female aged 30 to 35 years, and 1 married a female whose age was unknown, as shown by the headings of the columns, respectively, in which these numbers are found; and thus may the entire table be read. The period of age at which the largest proportion of bridegrooms appears is that from 20 to 25 years, and of the brides, the largest per cent. were under 20 years of age.

TABLE X.—Exhibiting the Number of each Sex at each Period of Age who were married in Michigan during the Year 1877; the Number of each Sex at each Period of Age who were united to the opposite Sex at each Period of Age; and the Per Cent. of Brides and of Bridegrooms at each Period of Age to Total at All Ages.

AGES OF					Agi	es of	FEX	ALES	, 187	7.						des.	at at
MALES, 1877.	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40,	40 to 45.	45 to 50,	50 to 55,	55 to 60,	60 to 65,	65 to 70.	70 to 75.	75 to 80,	80 and over.	Unk'n.	Total Males.	Per Cent. of Grooms at each Age.
Under 20	214	44	2	1											1	262	2.38
20 to 25	2,421	1,786	197	32	6	8									13	4,408	40,04
25 to 30	1,198	1,463	531	88	28	6	1		1						11	3,327	30,22
30 to 35	261	481	260	155	56	9	3								4	1,229	11.16
35 to 40	78	168	133	102	78	23	5	5	1	1			***		2	586	5.32
40 to 45	13	57	93	76	67	43	18	6			1				2	376	3,42
45 to 50	7	27	45	47	46	40	35	13	4						1	265	2.41
50 to 55	6	11	13	25	35	33	39	15	8		1					186	1.69
55 to 60	4	7	5	5	17	24	29	16	20	3					2	132	1.20
60 to 65	1	1	3	4	16	10	15	15	14	11	4					94	.85
65 to 70		1	4	2	2	5	10	10	9	12	6					61	.55
70 to 75			2	1	1	4	2	1	6	5	4	2				28	.26
75 to 80		1	1					1	3	1	2	1				10	.09
80 and over.					****												
Unknown	2	4	2		••••										37	45	-41
Total Females.	4,205	3,991	1,291	538	352	200	157	82	66	33	18	3			73	11,009	
Per Ct. of Brides at each age.	88, 19	36.25	11.73	4.89	3,20	1.82	1.43	.74	.60	.30	.16	.03			.66		100.00

#### GREAT DIFFERENCES IN AGES OF PERSONS MARRIED.

Some of the marriages in this State in 1877 were of persons between whose ages there was an unusual disparity, as may be seen by examining Table XI., immediately following. The greatest disparity of age among those marriages where the bridegroom was the older was 53 years, as shown for Livingston county, the age of the bridegroom being 77 years, and the age of the bride being 24 years; and the greatest disparity of age among marriages where the bride was the older was 27 years, as shown for Hillsdale county, the age of the bridegroom being 28 years, and the age of the bride being 55 years.

TABLE XI.—Marriages with Great Disparity of Ages, in Michigan during the Year ending December 31, 1877, according to the Returns.	rriages <b>,</b> with G	reat Disparit	y of Ages, is according to	the Re	ugan turns.	during the	Year ending	December	31, 1	877,	92
		BRIDEGROOM OLDEST,-1877.	DEST,-1877.				BRIDE OLDEST,-1877.	EST,—1877.			
COUNTIES.	Occuration	BIRTHPLACE,	LACE.	Аов.	ا أنه	Occuration	Вгяти	BIRTHPLAGE.	AGE.		
	OF BRIDEGROOM.	Bridegroom.	Bride.	Bride- groom.	Bride.	OF BRIDEGROOM.	Bridegroom.	Bride.	Bride- groom.	Bride.	
Allegan	Real Estate Dealer	New York	New York	28	g						VI
Alpena	Sailor	New York	Michigan	48	81	Laborer	Norway	Morway	22	я	T
Baraga	Salesman	Canada	Michigan	*	81						ΑL
Barry		Switzerland	Indiana	19	8	Farmer	Ohlo	New York	7	8	. 5
Bay		Scotland	Michigan	32	92	Laborer	England	Canada	Ŗ	<b>Ş</b>	5 <b>T</b> .
Benzie.	Farmer	Ohio	New York	\$	16			:			<b>A</b> ']
Berrien	Banker	Connecticut	Michigan	19	젊				-		r I
Branch	Farmer	Vermont	Ob lo	8	83	Farmer	Indiana	New York	8	<b>9</b>	ST
Calhoun	Farmer	New York	Michigan	67	87	Farmer.	Michigan	Michigan	3.	38	'IC
Cass	Farmer	New York	New York	88	83	Student	Indiana	New York	*	8	S
Oharlevoix	Farmer	New Brunswick Ohio.	Obio	23	22		,				0
Cheboygan	Merchant	Canada	Canada	23	2						F
Clare	Farmer	-	New York	* 32	a 16				-	:	M
Clinton	Farmer		New York	7	27		• • • • • • • • • • • • • • • • • • • •				10
Eaton	Farmer	Vermont	Michigan	8	8	Shoe-maker	New York	Scotland	52	\$	H
Emmet	Farmer	Unknown	Unknown	23	27						IG
Genesee	Barber	New York	New York	P 52	8	Teamster	Denmark	Maine	3	\$	Al
G'd Traverse	Farmor	Ohlo	Michigan	\$	11					:	N,
Gratiot	Farmer	Ohio	Michigan	3	91						18
Hillsdale.	Farmer		Obto	8	B	Day Laborer	Massachusetts .	Pennsylvania.	88	2	77.
Haron	Farmer	Canada	Canada	28	12					:	
Ingham	Farmer	York	New York	28	8	Photographer	England	Canada	22	<b>\$</b>	
Ionia	Farmer		New York	29	61	Farmer	Ohlo	New York	7	E	
Jackson	Farmer	Now York	Michigan	8	22	Gardener	England	Denmark	7	8	
Kalamazoo	Farmer   Unknown	New York Indiana	New York	<b>53</b>	88		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
Kont	Farmer	Talan Iraina	Michigan	2 1	2	Oabinet-maker . Scotland	Scotland	New York	li,	8	
Kewoon		Ossede									

### MARRIAGES-DISPARITY OF AGES.

	Farmer	Canada	Michigan	- 9	-	-			-	
1				_	_				<u> </u>	: :
Leelansw	CATTIAGO MAKOT	NOW YOUR	Canada	<b>3</b> 	_	Blacksmith	Indiana	OBIO	53	8
Lenawee Farm	Farmer	Massachusetts.	New York	_		Painter	Canada	New Jersey	8	\$
Livingston	Farmer	New York	Michigan	77 24	<u>:</u> -					
Macking	Boat.builder	Michigan	Michigan	32 21						;
Macomb	Manufacturer	New York	Michigan	67 27		Miller	Maine	New York	31	6
Manistee					₩.	Workman	Denmark	Denmark	ಷ	æ
	Laborer	Ireland	England	72 27		:	-			
	Farr	England	Pennsylvania	- SS		Farmer	Ohlo	New York	ន	g
Mecosta	Hotel keeper	Sweden	Norway.	48 - 50			-			:
Midland	Farmer	Massachusetts.	New York	58 19	=	Farmer	New York	England	92	S
	Farmer	Not given	Not given	30	-					
Monroe	Farmer	Michigan	Michigan	80		Farmer	Not given	Not given	92	27
Montcalm	Farmer	New Jersey	Indiana	17		Farmer	Michigan	New York	21	8
Muskegon	Machinist	Scotland	Germany	- S3					-	
	Farmer	New York	Michigan	22	_	Farmer	Michigan	Pennsylvania.	83	23
i	Clergyman	Michigan	Michigan	82		Miller	England	New York	7	8
Oceana	Farmer	New York	Michigan	26						
	Farmer	New York	lows	<b>8</b>		Blacksmith	Pennsylvania.	Ohio	83	88
Ottawa	Laborer	Sweden	Sweden	18		Book-keeper	Holland	Holland	æ	17
Sagina w	Farmer	Wurtemberg	Mecklenberg	92		Farmer	Germany	Germany	28	2
Sanilac	Farmer	New York	Ireland	- 12						
Shiawassoo	Foundryman	Oblo	New York	47 - 24	=	Laborer	New York Ohio	Ohio	37	8
St. Clair	Mason	England	Michigan	65		Farmer.	Ontario	Ontario	27	37
8t. Joseph	Carpenter	Pennsylvania	Pennsylvania	_		Farmer	Indiana	Ohlo	2	ಫ
	Carpenter	Canada	Canada	53 27	_					
Baren	Farmer	New York	Wisconsin	54 19	=	Farmer	West Virginia Unknown.	Unknown	ន	8
General	General Business	New York	Vermont		_	Farmer	Michigan New York	New York	हा	\$
***************************************	Gentleman	England	Michigan	£ 5	_	Farmer	Pennsylvania. Ohlo.	Ohlo	800	. 57
<b>A</b>	Farmer	Canada	Indiana	55		Farmer	Canada	Canada	<b>%</b>	87

CHOWN. BURGE. COLOREG.

TABLE VIII.—Continued.—Marriages by Counties, Nativity, and Periods of Age.

NATIVITY OF PRISONS MARRIED, 1877, STATED BY COUPLES.	2	2	Persons Married, 1877, Stated by Couples.	68 Married, 1877, Stated by Couples.	HIED, 1877, STATED BY COUPLES.	877, STATED BY COUPLES.	ATED BY COUPLES.	COUPLES.	TEB.			M	Marriagrs at Dipperent Agrs, Stated in Periods of Years, 1877.	RS AT	DIFFE	ENT.	AGES	STAT	ED IN	PER	IODS	OF Y	ZABS,	1877.	
For For UNKNOWN. UNKNOWN.	For For DAKNOWN.	For For UNKNOWN.	FOr UNKNOWN.	FOr UNKNOWN.			MALES	A O	×1	помп	SEX	Un.	93	83	30	#3	- 04	- 12	20	22 60	_	65 70	75	-	
For Hard	K. Na- males, Males.	Na males, Males.	males, Males.	males, Males.	Males.		Fema		les.	Jul	STATED.	der	to	9	to	9	o to	_	_	_	_	_	_	o pu	MOU
Both Both	Fe- tive Na. Formales. Males, tive, eign.	Fe- tive Na- For- males, Males, tive., eign.	tive Na- For- Males, tive., eign.	Na. For- tive., eign.	Na. For- tive., eign.		Na- tive.		For- eign.	Both		50.	ន	30.	53	9	4	20.	55,	60.	65.	70. 75.	8	-	Aun
254 193 5 30 17 3 1	5 30 17 3 1	30 17 3 1	17 3 1	3	-	_		- 1	-	4	Males	105	21.22	28	81-	116	20	901	60 10	411	11	11	11	11	111
39 8 15 9 6	15 9 6	9 6	9		+	-		1		-	Males	10	180	9	00.01	69.69	-	-1	11	11	H	11	Щ	11	
49 31 2 7 3 1	2 7 3 1	7 8 1	8 1	-				-	-	4	Males	01 2	18	16	400	•	11	- · ·	H	H	11	11	Ш	11	7.7
							- 1	T	1		Males	11	11	11	11	11	ij	H	11	ii	11	11	11	Ш	11
396 302 26 42 17 5 1	26 42 17 5	42 17 5	17 5	ю		-		-		н	Males	140	169	36	48	19.	g o	0#	00 00	97	C3 ←		11	11	-
249 196 14 26 8 3	14 26 8	8 95	90		99	i		1	-	Q1	Males	¥48	88	\$7	800	200	201	410	***	0101	01 !	60	11	11	1/1
16 7 3 2 1	67	2 1	1	-				-		Q1	Males	6	961	00 C3	401	01	11	ήī	1-	7.1	11	11	Щ	11	11
617 298 90 77 40 6	9 04 11 06	77 40 6	40 6	9	-	1		60		60	Males	192	209	162	273	124	15	20	=4	99		+	11	11	
25 25 35	18 5	49			-			-		-1	Males	123	10		1	in	- 1	ii	ㅐ	11	11	11	11	11	11
13 10 1 1 1	1 1	1	1			T		1		- 1	Males		00 64		1	нн	11	11		11		11	11	11	11
191 80 33 30 36 2	33 30 36	30 36	98		01	İ				-	Males	750	77	22	10	201	400	60.60	<b>6</b> -	1000	01	i-	-	11	1.1
946 18 14 9 5	14 9 5	9 6	9			-				-	Males	-12	16	0,10	==	40	:0				-		-	_	1

Ohlopewa	1	01 /		*	•		•	=		81	3	-	=	33	x,1/0	2	3
Olare	•	91		13	50		•	9		2	7		-	SI	1,854	3	8
Ollaton	100	144			901	97	<b>9</b> 2	186	80	138	88	-	8	173	130,061	187	5.
Delta	\$		47	23	28	-	83	33		g	22	:	23	\$	4,741	106	8
Eston	9	27	8		828	2	83	247	ឌ	270	og:	12	274	287	26,907	7	1.07
Emmet	3	10		10	g		ឌ	22		23	55		12	8	1,272	6	2.04
Genesee	803	500	104	818	314	61	316	8	91	341	88	ន	88	330	34,568	8	1.01
Gladwin					:			e:	:::::::::::::::::::::::::::::::::::::::	63				•	265	99	1.51
Grand Traverse	æ	31	-	22	35	9	\$	S	7	8	19	-	62	7	5,349	130	Ŀ
Gratiot	8	181	61	9	8	*	ğ	1		<b>Ξ</b>	8	82	Ξ	25	13,880	110	16.
Hillsdalo	Š	808		340	\$	16	8	370	13	383	828	7	372	333	31,566	8	101
Houghton	98	101		181	136		136	115	1	123	<b>85</b>		138	188	₽ 19,030	101	8.
Huron	83	8		8	20,		22	===	-	116	81		8	100	11,964	011	.9
Ingham	8	269	61	883	281	61	88	99	83	337	8	=	230	287	29,193	102	86.
Ionia	888	8	+	88	218	8	278	225	11	266	898	69	270	**	28.376	113	3.
Ioaco	\$	9	61	87	8		22	31		ጸ	11		11	8	4,675	111	38
Isabella	\$	3	7	88	26	13	62	51	1	20	8	65	8	Ş	690'9	75	.81
Isle Royal		:					<u> </u>				•			د	:		
Jackson	818	188	\$	321	88	=	377	827	83	838	88	នួ	200	305	37,988	3	1.04
Kelamazoo	878	83	11	202	8	17	819	308	6	312	S	16	998	676	32,2.4	130	77.
lknoka	•	•	:	•	8	-	33	7		7	=		=	18	1,559	65	1.27
	25	889	85	8	250	110	989	<b>153</b>	2	819	487	108	593	213	62,671	151	œ.
P.	81	8		æ	8		æ	85	_	83	Ş		\$	ន	5,411	216	<b>\$</b>
•	•	=		=	=		=	71		=	2	61	=	13	1,813	85	2.
9 9 9 7 -	163	187	**	961	161	7	198	193	64	195	183	_	193	191	25,140	132	.76
i	=	\$	61	\$	24	*	<b>¥</b>	83		83	8		ĸ	9	5,031	100	16:
ļţ			o facility														

\* Barrage county is included in statement of population of Houghton county and cannot be ascertained.

TABLE XII.—Continued.—Marriages Corrected by Counties.

						<b>X</b>	MABRIAGE	AGES.								Number	Per	
	1872.		1873.			1874.			1875.			1876.		1877.	Popula- tion, 1874,		Cent. of Mar.	
COUNTIES.	Number Numb He. as Hurned drat I previ. turne ous to Reb. 1, Com 1879. pilee	Number 186 as first 18c- turned and Com- piled.	Re- turned since first Compi	Number Re- turned previ- ous to Feb. 1, 1879.	Number 388 first Returned and Com-	Number Re- turned since first Compi-	Number Re- turned previ- ous to Feb. 1, 1879.	Number as first Re- turned and Com-	Number Re- turned since first Compi- lation.	Number 1 Re- turned 1 previ. ous to Feb. 1, 1879.	Number Number as Re. He. Turned turned and Complex Com	Number Re. turned since first Compi- lation.	Number Re- turned previ- ous to Feb. 1, 1879.	Number Re- turned.	Repre- sented by Marriages in 1877.	ants in 1874 to one Mar- riage in 1877.	riages in 1877 to Popu- lation in 1874.	VITAI
Lenawee	88	454	19	515	Ę	8	107	077	7	187	92	87	438	101	46,084	115	76.	. s'
Livingston	8	134		134	151	69	133	251	•	167	140	7	75	25	20,329	130	Tr.	TA
Mackinac	*	\$	61	60	88		88	=	69	13	=		=	12	1,496	82	1.14	TIS
Macomb	158	98	14	718	180	8	245	192	13	202	232	-	283	878	24,305	124	.81	3 <b>T</b> 1
Manistee	5	97	81	110	19	64	28	2		11	2		2	29	8,471	149	.67	CS
Maniton	80	69		C1	20		œ					1	:	90	657	110	.91	0
Marquette	81	267	11	<b>7</b> 82	208	6	215	138	64	140	88	-	99	8	21,946	201	8.	F :
Mason	8	7	က	ŧ	82		37	#	20	33	2	61	3	63	5,361	£	1.16	MI
Mecosta	22	23		50	87	64	8	8		22	88	01	8	88	9,182	ğ	8.	CH
Menominee	11	83		81	61		61	8		ā	8		23	22	8,490	100	<b>.9</b>	1G
Midland	ສ	6\$	-	8	ន		ន	93	-	8	83		23	÷	4,765	82	8.	AN
Missaukee	•	7		*	61	-	01	ю	-	10	69		60	7	909	87	1.16	, 18
Monroe	212	83	13	350	9778	3	810	2002	-	808	88	8	811	828	30,111	8	1.09	377.
Montesim	140	121	•	111	165	23	192	191	83	197	991	<b>\$</b>	186	178	\$0,815	121	8	
Muskegon	168	187	01	38	156	7	165	148	*	157	192	15	111	28	19,875	340	71	
Newaygo	8	8	•	2	8	61	88	86		88	22	:	82	160	8,768	101	G.	
Oakland	2	3	11	8	25	*	8	810	20	818	228	=	25	314	88,063	121	86	
Oceans	29	=	=	3	=	•	F	8		8	8		8	22	8,360	=	8	

Contoningen         13         21         1         24         14         24         15         16         16         16         16         16         16         16         16         16         16         16         16         16         16         17         6,116         81         134           Obseola         47         25         47         47         55         44         13         46         13         46         17         6,116         81         134           Closeola         150         258         13         256         257         257         251         256         27         257         257         253         251         256         257 <th>47         28         41         13         13         13         13         13         13         14         24         16         16         16         16         16         16         16         16         16         16         16         17         4,40         20         20           190         252         4         10         256         257         257         252         251         21         259         258           190         252         10         250         254         13         25         251         251         251         259         258         251         252</th> <th></th> <th></th> <th>[</th> <th>-</th> <th>•••••••••••••••••••••••••••••••••••••••</th> <th>:</th> <th>:</th> <th>-</th> <th></th> <th></th> <th>-</th> <th>•</th> <th>:</th> <th>•</th> <th></th> <th></th> <th><u> </u></th> <th></th>	47         28         41         13         13         13         13         13         13         14         24         16         16         16         16         16         16         16         16         16         16         16         17         4,40         20         20           190         252         4         10         256         257         257         252         251         21         259         258           190         252         10         250         254         13         25         251         251         251         259         258         251         252			[	-	•••••••••••••••••••••••••••••••••••••••	:	:	-			-	•	:	•			<u> </u>	
47         628         47         47         58         41         46         46         47         9,21         48	47         62         62         47         47         55         44         75         44         75         44         75         44         75         44         75         44         75         44         75         44         75<	Ontonagon	139		-	8	=	29	2	10	67	2	21		13	22	30,406	201	3.
150         258         1         258         1         1         1         259         254         259         251         257         253	150   228   1   230   224   13   226   227   227   225   223   241   269   228   229   224   241   259   229   224   241   259   224   241   259   224   241   259   224   241   259   224   241   259   224   241   259   224   241   259   241   2	Oseeola	47	8		2	*	:	1.7	8		8	7	10	9	11	6,216	.81	1.24
190         258         1         290         224         13         259         251         257	190         258         1         250         254         1         250         254         1         250         254         1         2	Otsego								*		*	13		13	-	883	83	43
466         482         483         8         8         8         8         7 </th <th>465         48         5         8         6        </th> <th>13 13</th> <th>180</th> <th>83</th> <th>-</th> <th>83</th> <th>77.5</th> <th>13</th> <th>83</th> <th>237</th> <th></th> <th>237</th> <th>22</th> <th>64</th> <th>234</th> <th>241</th> <th>86,929</th> <th>121</th> <th>18.</th>	465         48         5         8         6	13 13	180	83	-	83	77.5	13	83	237		237	22	64	234	241	86,929	121	18.
456         458 <td>465         478         478         478         478         488         384         478         484         488         133         484         484         133         484         384         384         77         571         351         484         137         137         137         137         138         117         1         118         138         117         1         118         138         146         137         147         1         1         138         131         1</td> <th>Presquo Isle</th> <td>۰</td> <td>-</td> <td></td> <td>-</td> <td>2</td> <td></td> <td>2</td> <td></td> <td>••</td> <td>*</td> <td>•</td> <td></td> <td>ĸ</td> <td>م</td> <td></td> <td></td> <td></td>	465         478         478         478         478         488         384         478         484         488         133         484         484         133         484         384         384         77         571         351         484         137         137         137         137         138         117         1         118         138         117         1         118         138         146         137         147         1         1         138         131         1	Presquo Isle	۰	-		-	2		2		••	*	•		ĸ	م			
465         486         486         886         884         77         501         854         478         484         78         484,400         137           117         88         22         111         107          107         132         1         188         117         1         118         135         150         131           136         18         22         11         107          107          16          15         1	465         485         9         487         879         836         412         886         884         7         501         851         48,400         137           117         89         22         111         107          107         132         1         183         117         1         118         135         150         120           136         116         44         160         162         37         189         16         16         179 <t< td=""><th>187</th><td></td><td></td><td></td><td>:</td><td></td><td></td><td></td><td>4</td><td></td><td>7</td><td></td><td></td><td></td><td>64</td><td>276</td><td>183</td><td>.72</td></t<>	187				:				4		7				64	276	183	.72
117         89         23         111         107         113         103         103         103         113         114         105         115         107         113         115         116         115         116	117 889 22 111 107 107 107 107 107 107 107 107 107	Saginaw		\$	6	437	879	×	413	335	13	88	788	1	102	33	48,409	137	.73
6         8         6         75	6         8         6         7	Sanllac		28	ន	==	107		107	133	_	183	117	-	118	38	16,392	121	8
136         116         44         180         162         183         166         166         169         163         169         169         169         169         169         169         169         169         169         169         169         169         169         169         169         169         170         171	136 116 44 160 162 87 87 189 189 8 166 166 150 6 158 183 21,773 119  256 250 66 252 278 278 28 806 265 827 28 827 278 11 284 818 25.006 83  258 251 73 121 28 132 25.00 257 278 141 284 818 25.00 83  258 251 73 13 1,943 1,023 104 1,127 82 14 80 80 80 80 80 80 80 80 80 80 80 80 80	Schoolers ft	٥	<b>∞</b>		œ	60		•	10		10	9		IC.	2	1,290	129	.78
845         520         66         856         850         61         430         827         53         850         851         15         430         827         53         850         851         15         430         827         53         520         831         15         430         830         827         250         273         11         844         815         850         85         85           133         131         131         290         130         138         3         141         147         147         140         16,096         83         15         141         147         140         16,096         150         83         141         147         147         16,096         150         150         150         150         150         141         141         147         140         150         150         141	434         5260         66         536         589         51         420         821         52         550         821         52         850         821         52         850         821         520         821         52	Shiawassee	136	118	=	8	152	22	88	108	60	99	28	9	138	82	21,773	119	18.
270         276         6         282         278         278         278         11         284         313         25.006         83           133         131         134         131         239         230         230         231         141         147          147         160         16,908         106           239         230         231         231         230         232         233         343         231         231         306         106         1127         823         274         214         88         272         231         231         231         231         231         232         232         234         234         231         231         232         232         234         232         234         232         234         232         234         232         234         232         234         232         234         232         234         232         234         232         234         232         234         232         234         232         234         232         234         232         234         232         234         232         234         234         232         234         234 <td>270         276         6         282         278         283         305         295         2.23         11         284         313         25.006         83           253         254         256         257         24         251         150         138         3         141         147          147         160         16,909         106           353         254         256         257         24         253         253         254         242         257         251         257         251         252         252         252         252         252         252         252         252         252</td> <th>8t. Olair</th> <td>848</td> <td>88</td> <td>8</td> <td>356</td> <td>88</td> <td>61</td> <td>95.7</td> <td>827</td> <td>8;</td> <td>320</td> <td>831</td> <td>15</td> <td>918</td> <td>319</td> <td>40,688</td> <td>128</td> <td>.78</td>	270         276         6         282         278         283         305         295         2.23         11         284         313         25.006         83           253         254         256         257         24         251         150         138         3         141         147          147         160         16,909         106           353         254         256         257         24         253         253         254         242         257         251         257         251         252         252         252         252         252         252         252         252         252	8t. Olair	848	88	8	356	88	61	95.7	827	8;	320	831	15	918	319	40,688	128	.78
138         121         13         134         121         29         130         138         3         141         147          147         140         146,908         106         16,908         106         106         16,908         106         106         106         106         106         106         106         106         106         106         106         106         106         106         106         106         106         107         106         107         823         141         201 <t< th=""><td>135 121 13 134 121 230 135 134 121 230 135 135 141 147 147 160 16,905 106 16,905 106 1525 235 235 235 235 237 29,136 123 235 235 235 235 237 29,136 123 235 235 235 235 235 237 29,136 123 235 235 235 235 235 235 235 235 235 2</td><th>St. Joseph</th><td>270</td><td>276</td><td>•</td><td>282</td><td>878</td><td>28</td><td>98</td><td>285</td><td>8</td><td>292</td><td>. 278</td><td>11</td><td>182</td><td>818</td><td>25.906</td><td>88</td><td>1.21</td></t<>	135 121 13 134 121 230 135 134 121 230 135 135 141 147 147 160 16,905 106 16,905 106 1525 235 235 235 235 237 29,136 123 235 235 235 235 237 29,136 123 235 235 235 235 235 237 29,136 123 235 235 235 235 235 235 235 235 235 2	St. Joseph	270	276	•	282	878	28	98	285	8	292	. 278	11	182	818	25.906	88	1.21
256         261         19         280         297         24         281         225         8         274         274         277         271,166         123           358         254         77         366         214         96         976         60         274         214         68         277         271,17         883         145         968         771         271         871         271         873         144,903         273         271         271         871 <td>258         261         19         280         257         24         253         3         223         9         942         237         29,186         123           353         354         254         72         306         206         206         60         274         214         68         272         291         292         291</td> <th>Tuscola</th> <td>138</td> <td>121</td> <td>13</td> <td>181</td> <td>191</td> <td>8</td> <td>150</td> <td>38</td> <td>•0</td> <td>1#1</td> <td>147</td> <td></td> <td>147</td> <td>99</td> <td>16,908</td> <td>108</td> <td>76.</td>	258         261         19         280         257         24         253         3         223         9         942         237         29,186         123           353         354         254         72         306         206         206         60         274         214         68         272         291         292         291	Tuscola	138	121	13	181	191	8	150	38	•0	1#1	147		147	99	16,908	108	76.
835         254         72         806         214         96         806         206         606         270         607	583         254         72         806         214         96         809         200         60         274         814         86         275         90         377         90         900         867755         133           736         982         814         823         145         868         751         901         902         628         144,903         231           9         80          80         22         2         2         24         21         0         80         51          51         48         8,011         70           9         80          80         22         2         2         24         21         0         80         51          51         48         8,011         70	Van Buren	230	261	65	280	133	22	83	253	ຄ	228	82	6	243	237	29,156	123	.8
786         982         311         1,243         1,023         104         1,127         823         145         968         751         201         932         628         144,903         231           9         80         80         81         81         91         80         81         8011         70	786         982         311         1,243         1,023         104         1,127         823         145         968         751         201         932         628         144,903         231           gas were in returns for 1876. No returns of marriages from county clerk for 1877.	Washtenaw	83	ផី	78	306	214	98	8	. 202	8	274	214	82	272	<u>ā</u>	88,723	133	.75
9 80 50 22 2 24 21 0 80 51 51 48 3,011 70	9   30     30   22   2   24   21   9   30   51     51   43   3,011   70	Wayne	282	986	311	1,243	1,023	101	1,127	873	345	898	751	201	932	82	144,903	231	ą.
	a These marriages were in returns for 1876. No returns of marriages from county clerk for 1877.  b Mo returns of marriages from county clerk for 1877.	Wexford	•	8	:	8	81	04	75	ឌ	6	8	19	. !	19	<b>\$</b>	8,011	20	1.43

i

EXHIBIT D.—Number of Inhabitants to One Marriage, as stated for Different Foreign Countries, the United States, and some of the States of the Union. The Statements for Michigan include only the Inhabitants of Counties Represented by Returns of Marriages.

COUNTRY, STATE, OR CITY.	Year for which the State- ment is made.	Inhabit to or Marri Annus	age	COUNTRY, STATE, OR CITY.	Year for which the State- ment is made.	Inhabi ants to one Ma riage An- nually
Austria		117	)	Minnesota	1870	. 110
Bavaria		160		Massachusettsb	1870	96
Belgium		122		Massachusettsb	1871	90
Denmark		129		Massachusettsb	1672	90
England		123	 	Massachusettsb	1973	96
Finland		141	Minnesota for 1869.	Massachusettsb	1874	100
France		122	2	Massachusetts	1875	12
Greece		174	sot	Massachusetts	1876	13
Holland		129	nno	Massachusetts	1877	13
Norway		124	Wi	New Jersey	1870	18
Prussia		106	Statistics of	New York Cityd	1969	10
Russia	•	111	at ic	New York City	1870	11:
Saxony	·	107	ta:	Michiganfg	1969	10
Spain		141	3	Michiganf	1870	12:
Sweden		135	from	Michiganfg	1871	11
United States	1860	122		Michigan	1872	12
New York	1860	135	raken.	Michiganfg	1878	11
Massachusetts	1865	97		Michiganig	1874	110
Ohio		105		Michigan	1874	10
Minnesota	1860	110		Michigann	1875	111
Minnesota	1868	107		Michigann	1876	120
		·		Michigan	1877	126

Taken from Statistics of Minnesota for 1870.

b Taken from Registration Report of Massachusetts for 1877, page 19.
c There were 18 Townships from which no returns of marriages were received. Computed from data in Registration Report of New Jersey for 1870.
d Computed from data in Report of Metropolitan Board of Health for 1869.
c Computed from data in Report of Board of Health, of Health Department, for 1870.
Marriages corrected, for additional returns, up to Feb. 1, 1879.
S Population estimated from Censuses of 1860 and 1870.
Population as per Census of Michigan, 1874.
Population estimated from Censuses of 1864 and 1874.

TABLE IX.—CONTINUED.—Persons Married under 21 Years of Age.

	Und	er 21 Y	EARS	AG	ES OF	MAI	ES, 1	877.	_	AG	ES OF	FEM.	ALES,	1877		
<b>COUNTIES.</b>		Males.	Fe- males.	Twenty.	Mineteen.	Eighteen.	Seventeen.	Sixteen.a	Twenty.	Nineteen.	Elghteen.	Seventeen.	Stxteen.	Fifteen.a	Fourteen,*	Thirteen.*
le Royalb																
anckson	219	27	192	19	5	3			52	44	51	23	20	1	1	
alamazoo	127	20	107	16	4				20	36	25	12	11	3		ļ
alkaska	10	1	9	1						4	2	1	2			
ent	272	35	237	21	11	9	1		45	59	60	41	29	2	1	
eweensw	14		14						1	1	3	6	3			
ake	10	2	8	1	1				1	1	2	2	2			
apeer	106	14	92	9	5				20	12	26	16	17	1		
eelanaw	25	4	21	3		1			4	2	5	6	3	1		
answee	216	34	182	23	9		2		40	49	42	30	18	3		
Livingston	57	4	53	3	1				16	10	13	8	5	1		
Mackinac	15	3	12	3					3	2	5		1		1	
Macomb	181	19	119	12	4	2	1		26	25	32	16	12	1		
Manistee	21	3	18	2	1				5	5	4	2	1	1		
Manitou	9	8	6	3					3	1	1		1			
Marquette	55	8	47	5	2	1			6	10	16	7	6	1	1	
Mason	85	4	31	2	2				3	5	9	6	6	2		
Mecosta	55	8	47	5	3				13	5	15	4	9	1		
Menominee	14	1	18			1			2	2	2	4	3			
Midland	23	1	22					1		8	4	5	4	1		
Missaukee	4	<b> </b>	. 4						1		1		2			
Monroe	181	26	155	17	7	2			29	32	49	25	19	1		
Montcalm	100	9	91	6	2	1			9	19	20	15	25	1	2	
Muskegon	76	7	69	4	2	1			19	20	13	10	6	1		
Newaygo	50	7	43	4	2	)		1	5	7	11	6	11	2	1	١
Oakland	155	20	135	14	5	1			36	36	35	17	10	1		
Oceana	51	5	46	4		1			8	7	6	13	12			
Ogemawc	1		. 1								1					
Ontonagon	6	<b> </b>	. 6						1	2	1	2				
Osceola	40	5	85	2	2	1			3	4	13	8	4	3		
Otsego	1		. 1									1				
Ottawa	140	15	125	8	6	1			31	23	35	19	17			
Presque Isle	1															
Roscommon	1	1	1	1	-		1						1			

<sup>Not legal marriages. For law and penalty to persons solemnizing, see sections (4719), (4720), (4728), and (4729), Compiled Laws of 1871, pages 1462 and 1463.
No returns of marriages from county clerk for 1877.
This marriage was in returns for 1876. No returns of marriages from county clerk for 1877.</sup> 

Table I. shows the number and per cent. of deaths by quarters of the year. The largest proportion is shown for the quarter ending with September, the smallest for the quarter ending with March. This is true of the returns of deaths for each year thus far compiled.

TABLE I.—Deaths in Michigan by Quarters of the Year, Exhibiting the Number and Per Cent. of Total, Returned for each of the Years 1872 to 1877, inclusive.

TOTALS, AND MONTHS	187	2.	1873	3.	187	4.	187	5.	1870	8.	187	7.
WITH WHICH QUARTERS END.	Num- ber.	Per Ct. of Total,	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total,	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.
Totals	13,871	100.00	14,258	100.00	12,500	100.00	11,990	100.00	12,576	100.00	12,919	100.00
March	2,299	17,19	3,211	22,52	2,246	17.97	2,679	22.34	2,460	19.56	2,599	20.12
June	2,984	21.94	3,335	23.89	8,039	24.81	2,838	23.63	2,803	22.29	2,829	21.90
September	4,441	33.21	4,182	29.33	8,870	30.96	8,834	27.81	4,009	81.88	3,999	80.95
December	8,667	27.43	3,461	24.28	3,299	26,39	8,078	25.62	3,278	26.02	. 8,436	26.60
Unknown	80	.22	69	.48	46	.87	71	.59	81	.25	56	.43
Average	3,842.75	25,00	3,564.50	25,00	8,125.00	25.00	2,997.50	25.00	8,144.00	25.00	3,229.75	25.00

In Table II. may be studied the relation of the months, as regards number of deaths. The largest number of deaths occurred in August in each of the years 1872–1877, except in 1874. In 1877, only four months show as much as the monthly average proportion of deaths,—August, September, October, and December; and during these four months 41.30 per cent. of all the deaths in 1877 occurred, according to the returns.

TABLE II.—Deaths Returned as having Occurred in Michigan, Exhibiting the Number and Per Cent. of Total for each of the Years 1872 to 1877, inclusive, the months arranged in order by Number of Deaths, the Greatest Number girst. Per Ct. of Total. 7.55 6.77 5.93 8.30 8.05 7.68 7.67 6.53 88. 1877. 12,919 AV.... 1,076.58 Num. April.. Year and Months. 11.32 Sept. .. Dec... Aug. .. Oct.... Nov... Мау... June... Feb. Year .... Unk. 100.00 7.76 α 23 Num. ber. 12,576 엻 AV.... 1,048.00 1876. 1,60 July... Year and Months. Aug. .. Sept. .. Doc.... April.. May ... June .. Feb... 100.00 8.52 8.37 1875. Num-ber. 11,990 1,222 1,080 S 999.17 Oct. ... Sept. .. Dec.... April.. July ... June .. Year and Months. Year ... Aug.... May ... Unk. .. Nov. Feb. Per Ct. of Total. 32. 100.00 7.74 8. 83. 1874. 12,500 1,102 1,388 1,120 1,517 1,211 3 AV ..... 1,041.67 Num-ber. 1,071 A u.g. ... Dec... Oct. ... April.. May ... Year .... July .... June .. Unk... Year and Months. Feb. Per Ct. of Total. 100.00 8.25 23 7.87 £. 2.30 8.03 8.33 7.97 14,258 1,248 1,136 3, 12 1,188.17 Num-ber. 1,174 1,191 1,067 1,040 1873. 2 Oct. ... July... Year and Months. Year .... Sept. .. Dec.... Feb... Nov... June .. Aug.... April.. May ... Per Ct. of Total. 100.00 7.07 9.68 1,663 1,288 1,058 38, 1872. 18,371 1,321 Δν.... 1,114.35 Num. ber. 3 Year and Months. Aug.... Sept.... 0ct... April.. Nov July ... June .. Unk. 04 တ 2 Оврвв.

Table III. contains data concerning the proportion of the males and of the females returned as having died in this State in 1877. In each month of the year there was an excess of males; and there were 113.03 males to 100 females, taking the year through. The largest number of males to 100 females appears for the month of July, the smallest for February.

TABLE III.—Number and Per Cent. of Deaths of Males and of Females from all Causes, as Returned, by Months. (Unknown sex excluded.)

WAAR AND MONING 1977	AS RET	DEATHS, UBNED, 77.		NT. OF E. OTAL OF SEXES,	ACE SEX BOTH	Males to 100
YEAR AND MONTHS, 1877.	Males.	Fe- males.	Males.	Fe- males.	Excess of Males.	Fe- males.
YEAR 1877	6,827	6,040	53.06	46.94	6, 12	118.08
January	408	855	53.47	46.58	6.94	114.93
<b>B</b> ebruary	427	415	50.71	49.99	1.42	102.80
March	525	457	53.46	46.54	6.92	114.88
April	542	435	55.48	44.53	10.96	124.60
May	495	475	51.03	48.97	2.06	104.91
Juno	486	407	53.88	46.62	6.76	114.50
July	565	471	54.54	45.46	9.03	119.96
August	819	788	52.60	47.89	5.21	110.98
September	746	648	53.52	46.48	7.04	115.19
October	634	585	52.01	47.99	4.02	108.38
November	550	500	52.88	47.62	4.76	110.00
December	623	527	54.17	45.88	8.34	118.23
Unknown	27	27	50.90	50.00		100.00

In Exhibit A the deaths are equalized to months of uniform length.

EXHIBIT A.—Decedents of each Sex, and Total Number of Deaths, in Michigan during the Year 1876, by Months Equalized to 30.44 days each;—Number of Deaths in each Month; Per Cent. of Deaths in each Month to Total Deaths during the Year; and Per Cent. and Excess of Per Cent. of Deaths of each Sex to Total of both Sexes.

YEAR AND			DEATH ID, 1877			T. OF DETERMINE			TOTAL	OF EACH OF BOTH OWN SE CLUDED.	SEXES, X Ex-
MONTHS, 1877.	Total.	Males.	Fe- males.	Un <b>j</b> e.	Total.	Males.	Fe- males.	Unk.	Males.	Fe- males.	Excess of Males.
YEAR 1877	<b>12,917</b>	6,826	6,089	52	100.00	100.00	100.00	100.00	53.06	46.94	6.12
January	758	401	849	8	5.88	5.87	5.78	5.77	58.47	46.58	6.94
February	916	464	451	1	7.09	6.80	7.47	1.92	50.71	49,29	1.42
March	973	516	449	8	7.53	7.58	7.44	15.88	53.47	46.53	6.94
April	992	550	441	1	7.68	8.06	7.80	1.92	55.50	44.50	11.00
May	958	486	466	6	7.42	7.12	7.72	11.54	51.05	48.95	2.10
June	888	478	413	2	6.87	6.93	6.84	8.85	58.89	46.61	6.78
July	1,021	555	462	4	7.90	8.18	7.65	7.69	54.57	45.48	9.14
August	1,531	804	725	2	11.85	11.78	12.01	3.85	52.58	47.42	5.16
September.	1,491	757	658	6	11.00	11.09	10.90	11.54	53.50	46.50	7.00
October	1,199	628	574	2	9.28	9.18	9.50	8.85	52.05	47.95	4.10
November_	1,075	<b>55</b> 8	507	10	8.32	8.17	8.40	19.23	52.89	47.61	4.78
December.	1,184	612	517	5	8.78	8.97	8.56	9.62	54.21	45.79	8.42
Unknown	56	27	27	2	.43	.40	.45	8.85	50.00	50.00	
Averageb	1,071.75	84.88	501.00	4.17	8.80	8.30	8.80	8.01			

Two deaths lost in equalizing,—one male and one female.
 Unknown month excluded.

104 EXHIBIT B.—Months arranged in Order by Number of Deaths,—those having the greatest Number first,—in Massachusetts for the Years 1875, 1875, and 1877; in Michigan for the Census Year ending June 1, 1870, by the U.S. Census and by the State Registration Returns, for each of the Years 1870 to 1877, inclusive, as per Registration Returns, and for each of the Years 1870 to 1877, inclusive, Corrected for Omissions in Enumeration; also, in Rhode Island for the Years 1875, 1876, and 1877. Sept. Aug. July. J'ne. Feb. May. Dec. Nov. 1877. oet. RHODE ISLAND STILL-BIRTHS. Excluding J'ne. Nov. Jan. 1876. Sept. Feb. Dec. Apr. Set. Sept. Apr. J'ne. Ang. Fob. Dec. Nov. July. 0et. Jan. J'ne. Aug. Nov. MICHIGAN, CORRECTED FOR OMISSIONS IN ENUMERA-Sept. July. May. Doc. Feb. Jan. 1877. oet. Mar. Apr. July. Aug. Sept. Apr. May. J'ne. Nov. 1876. Dec. Jan. Sopt. Mar. July. Feb. Oct. HON, INCLUDING STILL-BIRTES. Aug. Mar. J'ne. May. Jan. 1875. Apr. Dec. Feb. Nov. July. July. Oct. Sept. May. Aug. Apr. J'ne. Jan. Oct. Mar. Dec. Nov. Feb. 1874. Sept. J'ne. 1878. Aug. Mar. Apr. Feb. May. Dec. oet. Jan. NOV. July. Aug. J'ne. Sept. May. Nov. Apr. Mar. Dec. Feb. 1872. Jan. et. May. Apr. July. Feb. J'ne. Nov. 1871. Aug. Sept. Dec. Jan. July. Mar. oct. Aug. Sept. 1870. May. Mar. J'ne. Apr. Nov. Feb. Oct. Dec. Jan. Sept. July. July. J'ne. J'ne. Ang. 1877. oet. Dec. July. Nov. Mar. Apr. May. May. Feb. Feb. Jan. MICHIGAN, AS PER REGISTRATION RETURNS, Mar. Aug. Sept. 1876. Dec. Nov. oct. Apr. Jan. Aug. Sept. J'ne. Mar. May. Set. Dec. Apr. 1875. Feb. San. July. Nov. INCLUDING STILL-BIRTHS Sept. J'ne. Aug. Dec. Δpr. May. Nov. Mar. Oet. 874 Feb. Jan. July. May. Nov. J'ne. Sept. Mar. Aug. Apr. 1873. Oct. Feb. July. Dec. Jan. Δug. April May. 1872 Nov. Mar. J'ne. Feb. Sept. Jan. 0ct. Dec. Sept. July. J'ne. 1871. Ang. May. Nov. Mar. Dec. Δpr. Feb. Jan. July. Oct. Sept. J'ne. Aug. 1870. oet. Dec. Apr. Nov. Mar. Feb. Jan. Regis-tration Re-turns. MICHIGAN FOR CENSUS YEAR Sept. July. April. June. ENDING JUNE 1, 1870. NOV. Dec. oet. Jan. Reby Census Mar-shals. Jaly. June. Δug. Sept. NOV. Apr. Dec. Jan. Feb. et. Sept. Aug. July April May. J'ne. Mar. Nov. Dec. Feb. 0 6 Jan.

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MASSACHUSETTS. STILL-BIRTES. INOLUDING

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cled 3, and 1.44		May.	•	8.6	1,468	2.81	1,509	8 2	1,482
furns farms f 30		April		B 75	1,512	8.16	1,560	7. + 8	1,5883
ie Re gth o		Mar. April	•	88	1,572	8.51	1,627	1   25 81	1,598
rnea, dy tl		Feb.		25.35 25.35	1,874	86 53	1,427	56 + 2.44	1,58
notu Iered Liforn		Jan.	8 5	61.19	1,281	4.21	1,835	ı	18,707 1,311
, as ear cou of a u			• 12,863	6,422	18,285	<b>***</b>	18,683	+1+	18,707
EXHIBIT C.—Deaths in Michigan during the LOTT, as Instituted, as Corrected for Omissions in Enumerating, the same Equalized for Increase of Population during the Year covered by the Returns, and the Deaths as thus Corrected and Equalized for the several Months, Equalized to Months of a uniform length of 30.44 days; also, indicating some of the stops by which these results have been reached.			Deaths as returned by Registration Officers.	Number of deaths to be added for above correction	Deaths, if enumerated in months of occurrence	Per cent, of deaths to be added to equalize them to population at close of year	Deaths, as corrected, equalized to population at close of year	Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.  Number by which the deaths should be increased or diminished to equalize them to months of uniform length.	Deaths, corrected and equalized, equalized to months of uniform length

. Excluding 56 in unknown month.

**EXHIBIT** D.—Deaths during the Years 1874 to 1877, inclusive, a rected for Omissions in the Enumeration, Exhibiting the Number an Cent. of Total, by Months arranged in Order by Number, Months have greatest number first.

		1874.			1875.			1876.			1877.
DEB.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.
0 8	Total	20,090	100,00	Total	17,289	100.00	Total	18,389	100,00	Total	18,841
1	Sept	2,258	11.24	Aug	1,699	9.63	Aug	2,184	11.60	Aug	2,148
2	,Aug	2,151	10.71	Mar	1,680	9.72	Sept	1,949	10.90	Sept	1,870
8	Apr	1,977	9.84	Sept	1,642	9.50	Mar	1,606	8.78	Oct	1,580
4	May	1,856	9.24	Apr	1,568	9.07	July	1,578	8,58	Mar	1,572
5	Oct	1,728	8.60	May	1,554	8.99	Apr	1,566	8.52	Apr	1,512
6	Mar	1,705	8.49	Feb	1,482	8.57	May	1,508	8,20	July	1,477
7	July	1,554	7.74	Oct	1,408	8.14	Oct	1,497	8.14	May	1,468
8	Dec	1,462	7,28	Dec	1,296	7.50	Dec	1,420	7.79	Dec	1,397
9	June	1,448	7.21	July	1,280	7.40	Feb	1,855	7.87	Feb	1,874
10	Nov	1,322	6,58	Jan.	1,247	7.21	June	1,290	7.01	Nov	1,827
11	Jan	1,295	6.44	June	1,193	6.90	Nov	1,268	6.87	Jan	1,281
12	Feb	1,288	6,41	Nov	1,169	6.76	Jan	1,192	6.48	June	1,279
	Unk	46	.23	Unk	71	.41	Unk	81	.17	Unk	56
	Av	1,674	8,33	Ava	1,441	8.33	Ava	1,532	8.88	Ava	1,528

Including deaths in unknown month.

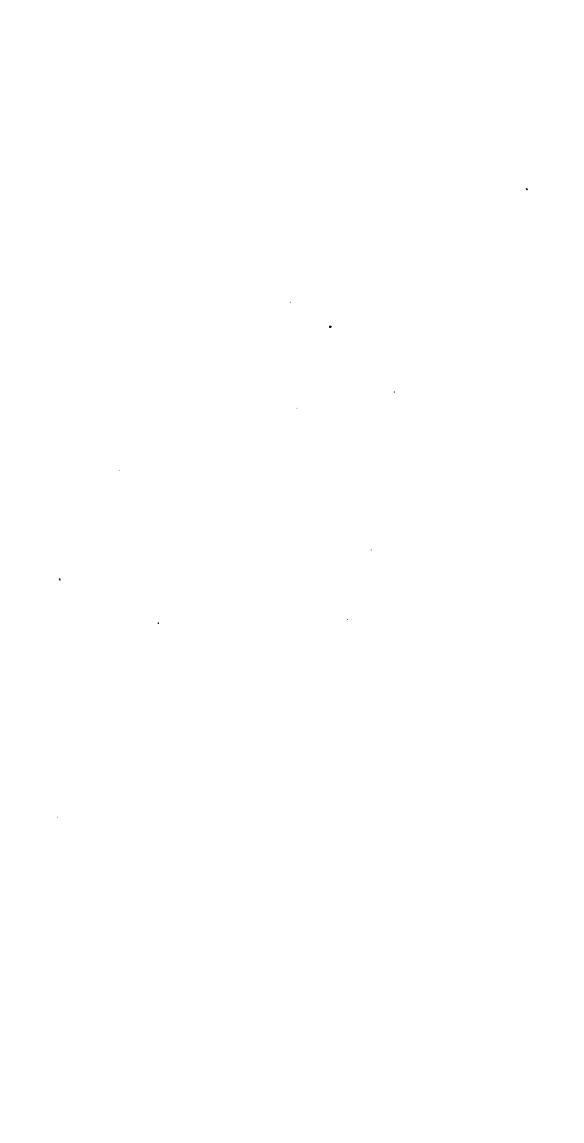
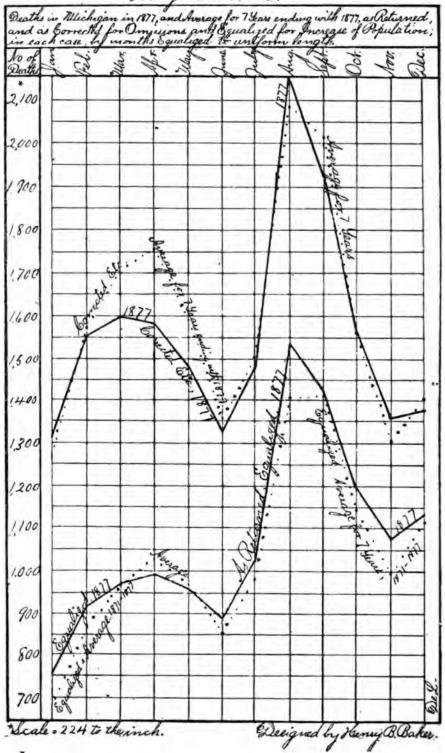


Diagram No. 3.



verying, as Corrected co

						Ä	Момтив, 1877.	, 1877.		İ		ļ	
•	TOTAL.	Jan.	Feb.	Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov. Dec.	Dec.
Deaths as returned by Registration Officers.  Per cent, of deaths to be added for correction for time elapsing before enumeration.	n 12,863	766	843	98.0	87.8	97.6 80.39	875	1,040	875 1,040 1,559 1,4:0 1,921 8.19 41.99 87.79 83.59 59.39	1,40	1,22	1,060	1,060 1,155
Number of deaths to be added for above correction	5,422	515	633	788	75%	<b>783</b>	707	183	989	470	93	267	242
Deaths, if enumerated in months of occurrence	18,285	1,381	1,374		1,572 1,512 1,468 1,279 1,477	1,468	1,279	1,477	2,148	1,870	2,148 1,870 1,580	1,827	1,397
Days and hundredths by which the months should be increased or diminished to equalise them to months of uniform length.  Number by which the deaths should be increased or diminished to equalize them to months of uniform length.	6+	56 +2.44 -23 +120		55 88   j	+.44	56	+.+ 4.19	8 5	2 3		1   1   1	+.4.	1   25   24
Deaths, corrected and equalized to months of uniform length	18,294	1,258	1,484	18,294 1,258 1,484 1,534 1,441 1,398 1,430 2,109 1,897 1,551 1,346 1,378	1,534	1,441	1,298	1,450	2,109	1,897	1,561	1,846	1,878

Excluding 36 in unknown month.

years for those under 5 years, and by periods of age for those over five years of age. The decedents aged under one year composed 26.11 per cent. of all the decedents, and those aged under five were 40.30 per cent. of the decedents at all ages. Among the decedents under one year of age, there were 113.03 males to 100 females, and among those under five years of age there were 123.54 males to 100 females. Between the ages of ten and forty-five years there were more female than male decedents, but at each of the other ages indicated in the table the excess was of the males. Table IV. shows, by sex, the number and proportion of persons returned as having died in this State in 1877, by ages in

TABLE IV.—Exhibiting, by Sex, and by Age in Periods of Years, the Number and Proportion of Persons Returned as having Died in Michigan during the Year 1877; also the Excess of Persons of each Sex.

AGES IN YEARS	Nu	<b>мвив</b> о 18	F DEAT	rus,	AT E	T. OF DACH AC AL AT AGES.	GE TO		CT. OF TOTAL SEX			THE	ESS OF BEXES BY CBER.	Males
AND			Fo.				Fo.		Fe-	Exc	ess.		Fo-	100 Fe-
PERIODS.	Total.	Males.	males.	Trnk.	Total.	Males	males.	Males.	males.	Males	Fe- malos.	Malos.	males.	malet
All Ages	12,919	6,827	6,040	52	100.00	100.00	100.00	53.06	46.94	6.12		787		118.0
Under 1	8,373	1,906	1,429	38	26.11	27.92	23.66	57.15	42.85	14.30		477		133.50
1 to 2	844	439	403	2	6.53	6.43	6.67	52.14	47.86	4,28		35		   108,91
2 to 8	468	242	226	<b></b>	8.62	8.54	8.74	51.71	48.29	3.42		16		107.00
3 to 4	291	151	140		2.25	2.21	2.82	51,89	48.11	3.78		11		107.90
4 to 5	231	117	118	1	1.79	1.71	1.87	50.87	49.13	1.74		4		108.54
under 5	5,207	2,855	2,811	41	40.30	41.82	88,26	55.27	4LTB	10.54		544	l 1	123.54
5 to 10	718	380	887	1	5,56	5.57	5.58	53.00	47.00	6.00		43	ļ	112.70
10 to 15	887	188	199		3.00	2.75	8.29	48.58	51.42		2,94		11	94.47
15 to 20	516	218	298		8,99	3.19	4.93	42,25	57.75	<b></b> .	15.50		80	78.1
20 to 25	572	259	814		4.43	8,78	5.20	45.10	54.90		9,50		56	82.16
25 to 30	549	233	816		4,25	8.41	5.23	42.41	57.56		15.12		83	73.71
<b>3</b> 0 to 35	459	203	256		8.55	2.97	4.24	44.23	55.77		11.54		58	79.80
85 to 40	412	198	214		3, 19	2.90	8.54	48.06	51.94		3.89		16	92.51
40 to 45	392	183	204		8.03	2.75	8.89	47.96	52.04		4.08		16	92.16
45 to 50	402	224	178		8.11	8.28	2.95	55.72	44.28	11.44		46		125.84
50 to 55	362	201	161		2.80	2.94	2.67	55.52	44.48	11.04		40		194.84
55 to 60	387	212	175		8.00	8.11	2,90	51.78	45.22	9,56		87		121.14
60 to 65	477	257	220		3.69	8.76	8.64	53.88	46.12	7,76		87		116.85
65 to 70	517	287	230		4.00	4.20	3.81	55.51	44.49	11.02		57		124.70
70 to 75	462	292	170		<b>8.5</b> 8	4.28	2.81	63.20	36,90	26.40		122		171.76
75 to 80	433	264	169		8.85	8.87	2,80	60,97	39.03	21.94		95		156.21
80 to 85	284	136	98		1.81	1.99	1.62	58.12	41,88	16,24		88		138.78
85 to 90	151	81	70		1.17	1.19	1.16	53.64	46,36	7,28		11		115.71
90 to 95	84	18	16		.26	.26	.26	52.94	47.06	5.88		2		112.50
95 to 100	12	7.	5		.09	.10	.08	58.83	41.67	16.66		2		140.00
100 and over	8	4	1		.04	.06	.02	80.00	20,00	60.00		8		400.00
Unk. Ages.	281	123	98	10	1.79	1,80	1.62	55.66	44.85	11.81		25		125.51

EXHIBIT F.—Deaths Returned as having occurred in Michigan in 1877, by Sex, and Excess of the Sexes, by Age in Years.

AGE	D	ECEDEN	rrs, 18	77.	Exc	ESS.	AGE	Di	CEDE	NTS, 1	877.	Exc	ESS.
IN YEARS.	Total.	Malos.	Fe- males.	Unk,	Males.	Fe- males.	YEARS.	Total,	Males.	Fe- males.	Unk.	Males.	Fe- males.
All Ages	12,919	6,827	6,040	52	787		85	101	59	42		17	
Today 1		1 000			477	-	86	82	83	49			16
Under 1	3,378 844	1,906 439	1,429 408	88 2	477 86		38	88 70	29	39 41		5	19
3	468	242	226		16		89	76	33	43			10
8	291	151	140		11		40	118	54	64			10
1	231	117	113	1	4		41	53	80	23	l	7	
·	175	99	76		28		42	87	45	42		8	
<b>6</b>	169	97	72		25		43	60	27	83		<b></b>	8
1	139	68	70	1		2	44	74	82	42			10
8	120	54	66		<b> </b>	12	45	89	54	85		19	<b> </b>
1,	115	62	53		9		46	64	83	81		2	
100	92	44	48			4	47	74	42	82	ļ	10	
11	101	46	55			9	48	81	88	43			5
n	65	30	85		İ	5	49	94	57	87		20	ļ
13	52	24	28		<b></b>	4	50	70	<b>\$</b> 8	82	<b> </b> -	6	
I£	77 -	44	88		11		51	61	82	29		8	
<b>p</b>	92	28	54			26	52	90	48	42		6	<b> </b>
18	96-	44	51			7	53	57	80	27	ļ	8	
17	98	45	- 53			8	54	84	53	81		22	[
18	119	52	67			15	55	. 86	52	84	<b> </b> -	18	<b></b>
<b>19</b>	123	49	78			24	56	73	87	86		1	
30	199	54	75			21	67	78	88	85	·	8	
21	108	47	61			14	58	80	44	36		8	
<b>3</b>	121	52	69			17	59	75	41	84		7	
<b>a</b>	90	41	49			8	60	126	69	57		12	
N	124	64	60		4	<b></b>	61	62	48	19		24	
\$5	108	45	63			18	62	98	50	48		2	
N	100	58	56			8	68	103	49	54			5
7	115	47	68			21	64	88	46	42		4	
11	129	54	75			21	65	119	68	ស្ន		17	
9	88	84	54			20	66	104	58	46	••••	13	
<b>a</b>	119	58	66			13	67	102	64	88		26	
a	70	81	89			8	68	114	54	80			•
a	88	36	52			16	<b>6</b> 0	78	49	85		8	•••••
B	97	45	52			7	70	111	72	80		#	
84	85	38	47			9	71	68	43	26		16	****

EXHIBIT F.—Continued.—Deaths by Ages in Michigan in 1877.

AGE	Dı	CEDE	NTB, 18	377.	Exc	E88.	AGE	Dı	ECEDE	NT8, 1	877.	Exc	ess.
IN YEARS.	Total.	Males.	Fe- males,	Unk.	Males.	Fe- males.	YEARS.	Total.	Males.	Fo- males,	Unk.	Malos.	Ye- males.
72	103	67	36		81		89	15	5	10			5
73	71	47	24		23		90	9	3	6		<b> </b>	3
74	109	64	45		19		91	12	10	2	ļ	8	
75	101	56	45		11		92	5	4	1		3	
76	85	47	38		9		93	5		5			6
77	102	66	36		30		94	8	1	2			1
78	85	56	29		27		95	3	3			8	
79	60	39	21		18		96	8	1	2			۱ ا
80	76	44	82		12		97	2		2			1
81	36	23	13		10		98	3	8			8	
82	37	24	13		11		99	1		1			l
83	39	17	22			5	100	1	1			1	
84	46	28	18		10		101	1		1			
85	31	19	12		7		107	1	1	•••••		1	ļ
86	35	19	16		8		109	1	1			1	
87	44	23	21		2		122	1	1			1	<b> </b>
88	26	15	11		4	l(	Unknown.	231	123	98	10	25	<u>.</u>

Exhibit G contains valuable data upon the relative proportion of decedent at different periods of life and in different months of the year. The proportion of deaths of persons under 1 and under 5 years of age was the largest in August; of the decedents aged 5 to 10 years the proportion was largest in September; of those aged 10 to 20 years the largest proportion was in October; of those aged 20 to 50 years the largest proportion was in May; of those aged 50 years and over the largest proportion was in September. More than one-half (53.24 per cent.) of all the decedents in August, 1877, were under 5 years of age.

DEATHS BY AGES IV P	SEA BY TO SUCINE VI PER	YEAR,					Ä	MONTHS, 1877	, 1877.					
		1877.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
All Ages		12,863	768	813	064	978	976	876	1,040	1,659	1,400	1,221	1,060	1,155
	Number	8,363	179	82	£	212	913	203 203	8	552	88	808	22.	83
Under 1	Per Cent, of All Ages	26.14	23.37	27.16	26.57	21.68	21.72	23.20	28.83	35.41	27.14	25.23	22.08	25.19
		100.00	5.32	6.81	7.82	6.30	6.30	6.04	8.93	16.41	11.30	9.16	6.96	8.65
	(Numbor	6, 192	98	345	364	337	908	818	469	830	979	767	388	917
Under 5	Per Cont. of All Ages	40.38	37.96	40.83	26.77	34.48	81.35	36.34	46.10	53.24	44.67	40.46	1878	38.61
	under 5	100.00	5.59	6.64	7.01	6.49	5.89	6.13	9.03	15.90	12.05	9.51	7.11	8.50
	Number	718	07	2	#	67	8	3	43	8	66	8	88	62
5 to 10	Per Cent. of All Ages	5.58	6.22	4.63	77.7	5.01	5.64	6.17	£13	70.7	7.07	6.96	8.08	5.87
	6 to 10	100.00	29.9	5.43	6.13	6.83	7.66	7.52	6.99	8.77	13.79	11.84	11.84	8.64
	(Number	903	23	23	8	23	11	75	11	8	100	103	<b>ಪ</b>	88
10 to 20.	Per Cent, of All Ages	7.01	6.79	6.78	6.06	5.73	7.27	8.67	6.83	6.71	7.14	8.80	7.93	7.10
	10 to 20	100.00	5.76	6.32	6.63	6.91	7.87	8.31	7.87	9.87	11.00	11.64	9.31	<b>8</b> .0
	(Number	2,778	164	38	<b>7</b> 23	<b>X</b>	<b>28</b>	218	217	878	230	123	250	33
20 to 50	Per Cent. of All Ages	21.60	21.41	23.61	23.64	24.74	<b>28</b> .82	24.91	20.87	15.97	17.07	20.56	23.58	21.90
	20 to 50	100.00	6.90	7.16	8,42	8.71	9.43	7.85	7.81	8.96	8.80	9.04	9.00	9.11
	Number	3,064	203	187	586	273	898	198	82	208	816	274	250	8
Boand over	Per Cent. of All Ages.	23.82	26.50	22.18	26.87	28.12	27.46	22.63	21.63	19.76	22.57	29.44	33.58	25.45
	60 and over, total Loading, age of	100.00	6.63	6.10	8.68	8.98	8.75	6.46	7.34	10.05	10.31	8.94	8, 16	9.60
	Number	509	11	98	83	8	7.	13	22	8	23	13	82	81
1 Age.	Per Cent. of All Ages	1.62	99	1.90	2,23	1.94	1.43	1.87	1.44	1.28	1.67	8.	2.08	75.
	Tor Cont. to Louis Desius, at	300.00	8.18	7.65	10 53	8	6 70	K 74	7 10	0.87	10 84	17.1	91 01	

TABLE V.—Exhibiting, by Sex and by Age in Periods of Years, the Number of Persons Returned as having Died in Michigan during the Year, and in each Month of the Year 1877.

AGES IN PERIODS	[ 5	YEAR,					1	non:	r <b>H8</b> ,	1877.					
OF YEARS.	SEX.	1877.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oet.	Nov.	Dec.	Unk.
	Total	12,919	766	843	990	978	976	875	1040	1559	1400	1221	1060	1155	56
	Males	6,827	408	427	525	542	495	466	565	819	746	634	550	623	27
All Ages	Females	6,040	355	415	457	435	475	407	471	738	648	585	500	527	2
	Unknown	52	3	1	8	1	6	2	4	2	6	2	10	5	1
	Total	3,373	179	229	263	212	212	203	300	552	380	308	234	291	10
	Males	1,906	105	131	148	133	130	111	162	313	201	178	125	165	
All Under 1	Females	1,429	72	97	108	78	77	90	136	238	175	128	100	125	1
1	Unknown	38	2	1	7	1	5	2	2	1	4	2	9	1	1
1	Total	5,207	290	345	364	337	306	318	469	830	624	494	369	446	12
	Males	2,855	174	186	199	201	177	174	251	455	328	274	183	245	
All Under 5	Females	2,311	114	158	158	135	124	142	215	373	291	218	177	200	1
	Unknown	41	2	1	7	1	5	2	3	2	5	* 2	9	1	1
	Total	718	40	29	44	49	55	54	43	63	99	85	85	62	
	Males	380	16	22	26	23	30	23	23	41	54	46	44	32	
5 to 10	Females	337	24	17	18	26	25	31	20	22	44	39	41	30	
	Unknown	1									1				
	Total	387	18	20	14	21	39	39	32	38	47	48	27	44	
10 to 15	Males	188	8	8	6	14	16	22	14	16	16	30	15	23	
	Females	199	10	12	8	7	23	17	18	22	31	18	12	21	
1	Total	516	34	37	46	35	32	36	39	51	53	57	57	38	
15 to 20	Males	218	9	14	20	17	11	14	24	17	21	23	30	17	
	Females	298	25	23	26	18	21	22	15	34	32	34	27	21	
	Total	572	29	37	49	51	55	58	37	34	53	51	66	50	
20 to 25	Males	258	16	15	22	24	19	26	13	15	28	24	33	21	9
	Females	314	13	22	27	27	36	32	24	19	25	27	33	29	
	Total	549	32	47	47	50	46	41	35	62	41	52	47	49	
25 to 30	Males	233	16	17	20	25	16	17	14	22	24	17	20	25	
	Females	316	16	30	27	25	30	24	21	40	17	35	27	24	
	Total	459	31	31	48	39	40	28	39	38	44	37	32	50	
30 to 35	Males	203	13	13	25	15	17	13	22	16	20	14	13	21	
	Females	256	18	18	23	24	23	15	17	22	24	23	19	29	,
	Total	412	29	25	23	29	48	33	47	41	29	35	35	37	,
35 to 40	Males	198	14	11	9	17	16	17	24	17	17	13	22	20	1
,	Females	214	15	14	14	12	32	16	23	24	12	22	13	17	
	Total	392	22	30	36	42	30	31	29	34	82	38	31	35	9
10 to 45	Males	188	8	15	15	23	14	18	14	17	13	19	14	17	1
Col Ascontinuit	Females	204	14	15	21	19	16	13	15	17	19	19	17	18	1

TABLE V.—Continued.—Deaths by Periods of Age, by Sex, by Months.

	· ·		1										<del>,</del>		
AGES IN PERIODS	SEX.	YEAR,							THS,						
OF YEARS.	511.	1877.	Jan.	Feb.	Mar.	Apr.	May.	June.	July	Aug.	Sept	oct.	Nov.	Dec.	Upk.
	Total	402	21	29	81	81	43	27	30	40	40	38	39	32	1
-4-5 to 50	Males	224	12	20	12	20	22	14	20	22	24	19	20	18	1
	Females	178	9	9	19	11	21	13	10	18	16	19	19	14	
!	Total	362	26	25	26	25	35	28	29	29	85	41	30	33	
.50 to 55	Males	201	12	12	15	12	21	19	17	16	24	17	19	17	
ĺ	Females	161	14	13	11	13	14	9	12	13	11	24	11	16	
!	Total	887	18	17	.51	33	32	31	29	44	35	24	39	84	
-55 to 60	Males	212	10	6	80	16	18	15	15	22	20	17	23	20	
· i	Females	175	8	11	21	17	14	16	14	22	15	7	16	14	
	Total	477	80	34	84	37	85	28	37	44	59	48	44	45	2
-90 to 65	Males	257	20	13	23	14	15	20	22	24	35	21	21	27	2
, (	Females	220	10	21	11	23	20	8	15	20	24	27	23	18	
_	Total	517	36	84	41	53	87	35	39	52	53	43	45	4.5	4
65 to 70	Males	287	18	17	25	81	19	19	25	28	31		24	25	1
•	Females	230	18	17	16	1 1	18		14	24	22		21	20	8
<b></b>	Total	462	83	20	38	1 1	40		35	52	45		25	51	2
₹0 to 75	Males	292	23	13	19	28	24	21	25	30	29	26	16	88	
	Females	170	10	7	19	16	16	10	10	22	16		9	13	2
75 to 80	Total	433 264	27 15	24 18	32 19	45 28	46 30	26 16	25 21	40 25	41	49 27	34	43	1
	Males Females	169	12	6	13	17	16	10	4	25 15	22 19	22	17	26	
	Total	234	16	19	24	20	26	8	19	22	22	14	17	17 26	l
80 to 85	Males	136	7	10	17	11	15	6	10	15	11	8	10	16	
- 1	Females	98	9	9	7	9	11	2	9	7	11	6	7	10	1
,	Total	151	12	10	16	15	12	1	9	18	19	7	12	12	_
€5 to 90	Males	81	5	4	8	9	9	3	4	8		5	10	7	ı
	Females	70	7	6	8	6	3	6	5	10	10	l	ŀ	5	1
	Total	34	3	4	8	2	3	1	2	4	4	1	8	4	
<b>20</b> to 25	Males	18	1	4	1	1	2	1	1	1	3	1	1	1	
į	Females	16	2		2	1	1		1	8	1		2	8	
1	Total	12	1			1	1	1	1	3	2	1		1	
<b>to 100</b>	Males	7				1		1		2	2			1	
į	Females	5	1				1		1	1		1			
(	Total	5	1		1		1				1		1		
₹00 and over	Males	4			1		1				1		1		<b> </b>
į	Females	1	1												
1	Total	231	17	16	22	19	14	12	15	20	22	12	22	18	23
Unknown	Males	123	11	9	13	12	3	7	6	10	14	9	14	6	9
	Females	98	5	7	8	7	10	5	8	10	8	3	7	8	12
	Unknown	10	1	·	1		1		1				1	4	

TABLE VI.—Exhibiting, by Sex and by Months, the Number Returned as having Died in Michigan during the Year 1877 at each and every Age, the Age stated in Twelfths of a Year for those under One, and in Years for those over One Year of Age.

AGES		YBAB.						Mont	нв, 18	77.					
YEARS.	SEX.	1877.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Total	1,598	95	123	154	112	123	110	122	163	122	149	141	178	-
	Males	917	51	67	91	76	77	63	67	89	62	93	77	101	
Under 1-12.	Females.	614	42	55	56	35	41	45	58	78	56	54	56	76	,
	Unknown	87	2	1	7	1	5	2	2	1	4	2	8	1	,
	Total	245	14	24	15	15	12	12	15	41	87	19	19	21	,
	Males	141	11	17	11	7	5	6	6	25	20	9	13	11	
1.12	Females.	103	8	7	4	8	7	6	9	16	17	10	5	10	] 1
	Unknown	1									<b> </b>		1		ļ
	Total	234	16	13	16	13	11	8	80	40	40	19	18	10	
2-12	Males	131	6	9	8	9	8	4	18	30	17	14	5	8	ļ
. 1	Females.	103	10	4	8	4	8	4	17	10	23	5	13	2	ļ
	Total	187	12	8	10	14	9	5	23	39	28	15	5	19	<b> </b>
8-12	Males	111	9	4	4	7	8	1	18	20	17	10	3	10	<b> </b> -
	Females.	76	8	4	6	7	1	4	5	19	11	5	2	9	ļ
	Total	178	10	15	11	5	9	10	21	45	21	15	2	14	
4-12	Males	109	7	10	7	3	7	4	12	81	14	5	1	8	
	Females.	69	3	5	4	2	2	6	9	14	7	10	1	6	ļ
!	Total	147	6	8	9	6	4	10	21	36	19	12	7	9	
5-12	Males	72	4	5	4	4	2	. 2	10	18	8	4	3	5	<b> </b>
1	Females .	75	2	8	5	2	2	5	11	18	11	8	4	4	<b> </b> -
	Total	187	5	13	12	9	7	11	9	56	27	18	7	13	ļ
6-12	Males	106	8	7	8	5	5	6	7	31	13	8	5	8	
i	Females.	81	2	6	4	4	2	5	2	25	14	10	2	5	
1	Total	131	5	10	9	5	1	10	9	26	25	15	9	6	1
7.12	Males	66	5	4	4	1	1	4	5	11	14	9	4	4	
	Females.	65		6	5	4		6	4	15	11	6	5	2	1
	Total	113	5	7	12	8	3	5	13	24	13	8	6	8	1
8-12	Males	67	2	5	6	5	1	4	7	13	11	4	6	3	
l	Females	46	3	2	6	3	2	1	6	11	2	4		5	1
	Total	127	4	1	9	6	15	7	12	27	15	19	5	7	
9-12	Males	65	2		4	3	8	4	6	14	8	10	3	3	
	Females.	62	2	1	5	3	7	3	6	13	7	9	2	4	<b> </b> -
1	Total	109	4	5	5	6	7	5	12	22	16	10	11	5	1
10-12	Males	50	3	2	1	4	1	4	6	16	8	6	4	8	,
	Females.	50	1	3	4	2	6	1	6	6	8	4	7	2	<b> </b>

FABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

S		YEAR,						MONT	нв, 187	77.					
s.	SEX.	1877.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1	Total	117	3	2	1	13	11	10	13	33	17	9	4	1	
	Males	62	2	1		9	7	6	5	15	9	6	1	1	
	Females .	55	1	1	1	4	4	4	8	18	8	3	3		
	Total	844	53	54	42	47	44	56	80	143	125	91	57	50	
J	Males	439	35	26	22	25	21	32	45	73	61	43	24	31	
-	Females.	403	18	28	20	22	23	24	34	69	64	48	33	19	
1	Unknown	2							1	1					
1	Total	468	27	35	27	38	22	27	43	79	57	37	31	44	İ
	Males	242	18	18	12	22	9	17	20	39	31	21	16	18	
	Females'.	226	9	17	15	16	13	10	23	40	26	16	15	26	
Ŋ	Total	291	19	15	15	21	14	19	24	39	35	27	26	35	
	Males	151	10	5	7	11	8	8	12	22	21	18	9	18	
	Females.	140	9	10	8	10	6	11	12	17	14	9	17	17	
	Total	231	12	12	17	19	14	13	22	17	27	31	21	26	
	Males	117	6	6	10	10	9	6	12	8	14	14	9	13	
••••	Females.	113	6	6	7	9	5	7	10	9	12	17	12	13	
	Unknown	1									1				
	Total	175	15	7	14	8	21	11	6	16	28	16	99	11	
	Males	99	8	4	7	2	11	3	5	12	17	9	14	7	
	Females.	76	7	3	7	6	10	8	1	4	11	7	8	4	
	[Total	169	6	12	12	16	8	12	10	16	20	25	17	15	
	Males	97	3	8	7	9	6	7	6	9	12	13	10	7	
	Females.	72	3	4	5	7	2	5	4	7	8	12	7	8	
	Total	139	10	8	8	10	6	12	10	9	20	25	11	10	
•	Males	68	2	3	7	3	3	6	5	0	8	15	6	4	
•	Females.	70	8	5	1	7	3	6	5	3	11	10	. 5	6	
	Unknown	1									1				
	[Total	120	7	7	4	7	11	13	8	11	10	8	19	15	
	Males	54	2	4	2	5	4	5	3	6	4	3	8	8	
	   Females .	66	5	3	2	2	7	8	5	5	6	5	11	-7	
	(Total	115	2	5	6	8	9	6	9	11	21	11	16	11	
•	Males	62	1	3	3	4	6	2	4	8	13	6	6	6	
	Females.	53	1	2	3	4	3	4	5	3	8	5	10	5	
	[Total	92	5	4	2	3	6	14	13	8	7	14	4	12	
••••	Males	44	3	1	1	2	5	7	3	5	2	9	1	5	
	Females .	48	2	3	1	1	1	7	10	3	5	5	3	7	

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

AGES	SEX.	YEAR,						Mont	HS, 18	77.					
IN YEARS.	SEX.	1877.	Jan.	Feb.	Mar	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1	Total	101	5	5		8	10	10	4	10	15	16	8	15	_
1	Males	46	2			1	2	5	8	4	6	12	4	7	
- 1	Females.	55	3	5		2	8	5	1	6	9	4	4	8	
ſ	Total	65	3	4	4	2	7	10	6	3	7	5	6	8	
   <b>3</b> {	Males	30	1	3	1	2	2	5	2		1	3	4	6	
-	Females.	85	2	1	8		5	. 5	4	8	6	2	2	2	
1	Total	52	8	3	8	8	6		4	6	8	7	6	8	
s	Males	24	1	2		1	8	<b></b>	2	2	4	4	4	1	
į	Females.	28	2	1	8	2	8		2		4	8	2	2	
ſ	Total	77	2	4	5	10	10	5	5	11	10	6	8	6	
4	Males	44	1	2	4	8	4	5	4	5	8	2	2	4	
{	Females	33	1	9	1	2	6		1	6	7	.4	1	2	
· ·	Total	82	1	1	8	7	8	6	5	12	11	10	9	9	
<b>5</b>	Males	● 28			2	5	1	1	8	4	5	8	2	3	
	Females.	54	1	1	6	2	8	5	2	8	6	7	7	6	
·	Total	95	8	5	8	11	9	7	7	6	4	12	17	6	
6	Males	44	1	2	5	4	8	2	5	1	i -	8	12	1	
	Females	51	2	8	8	7	6	5	2	5	4	1	5	5	
ì	Total	98	7	6	8	4	8	4	6	11	17	11	7	9	
, j	Males	45	4	5	4	8	4	2	5	8	8	8	1	8	'''
)	Females.		8	1		1	4	2	1	8	و	8	6	6	
	Total	119	11	12	8	6			8		1	1	9	-	
i	Males	52	1	1	2	8	5	11	- 1	18	15	12	•	9	
i	Females.	67	10	8			2	5	6	5	4	1	6	8	
`	Total	122	12	18	6	3	8	6	2	8	11	6	3	1	
i	Males			1	14	7	7	8	13	9	6	12	15	5	
i		49	8	8	7	2	2	4	5	4	4	8	9	2	Ì
Ţ	Females .	73	9	10	7	5	5	. 4	8.	5	2	9	6	8	
_	Total	129	8	10	14	11	12	9	7	9	15	8	16	15	
0	Males	54	1	6	8	5	5	4	2	3	9	2	7	7	
	Females.	75	2	4	11	6	7	5	5	6	6	6	9	8	
_ [	Total	108	5	8	9	8	8	13	8	6	12	13	11	6	
n	Males	47	8	2	4	2	5	6	5	2	4	7	4	2	
(	Females.	61	2	6	5	6	3	7	8	4	8	6	7	4	
_	Total	121	9.	1	10	14	13	10	7	9	9	13	18	13	
1	Males	52	2		6	8	1	G	2	2	4	9	8	4	
	Females.	69	7	1	4	6	12	4	5	7	5	4	5	9	
ſ	Total	90	6	4	4	9	11	10	6	5	7	9	11	8	
<b>3</b> . {	Males	41	4	1	4	4	8	3	1	4	5	1	6	5	
(	Females	49	2	3	ا۔۔۔۔۔ا	5	8	7	5	1	2	8	5	3	

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES								Morr	ns, 18	77.					
IN	SEX.	YEAR, 1877.			1 1						ند		ř .•		1 3
YEARS.		20111	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Bept.	008	NOV.	D 86.	UB.
(	Total	124	6	14	12	9	11	16	9	5	10	8	15	8	1
94	Males	64	6	6	5	5	5	7	3	4	6	5	8	8	. 3
į	Females.	60		8	7	4	6	y	6	. 1	4	8	7	5	
ſ	Total	103	3	10	7	8	5	8	31	19	5	11	9	12	
<b>5</b>	Males	45	3	3	8	4	3	4	1	8	8	8	8	7	
. (	Females.	63		7	4	4	2	4	70	11	2	8	6	5	
ſ	Total	109	6	10	13	11	7	5	9	16	11	6	10	5	
26	Males	58	4	8	4	6	3	2	2	8	8	2	7	4	<b> </b>
į	Females.	58	2	7	9	5	4	8	7		8	4	3	1	
(	Total	115	0	10	10	10	11	14	5	12	9	10	10	8	
27	Males	47	3	2	5	6	5	7	4	3	2	2	8	5	<u> </u>
į	Females.	68	8	8	5	4	6	7	1	•	7	8	7	8	
ſ	Total	129	10	15	11	. 13	15	6	4	6	13	15	11)	12	
23	Males	54	2	8	5	6	4	1	4	2	7	7	3	5	
l	Females .	75	8	7	6	7	11	5		4	4	8	8	7	
ſ	Total	88	7	2	6	8	8	8	6	9	5	10	7	12	
29	Males	84	4	1	8	8	1	8	3	1	4	3	4	4	<b></b>
	Females.	51	8	1	3	5	7	5	3	8	1	7	8	8	
ſ	Total	119	7	9	11	11	21	6	16	13	7	5	7	14	2
<b>≥0</b>	Males	53	8	8	8	6	3	3	8	7	1	8	8	4	1
į	Females.	66	4	6	3	5	8	3	8	6	6	2	4	10	1
ſ	Total	70	4	6	8	8	5	8	5	4	2	7	8	10	
<b>3</b> 1	Males	31	4	8	6	1	1	8	2	1	1	1	8	5	
ł	Females.	39		8	2	2	4	5	8	8	1	6	5	5	
ſ	Total	88	6	7	8	11	10	6	6	6	7	7	4	10 -	
31	Males	36	3	2	2	8	4	8	5	3	4	3	1	8	
t	Females .	52	8	5	6	8	6	8	1	3	8	4	8	7	
ſ	Total	97	6	4	10	8	8.	5	6	9	12	12	6	11	
\$3	Males	45	2	2	3	2	6	8	3	4	6	4	8	7	
ί	Females.	52	4	2	7	6	2	2	3	5	6	8	8	4	
(	Total	85	8	5	11	6	6	3	•	6	16	6	7	5	
84	Males	<b>3</b> 8	1	8	6	8	8	1	4	1	8	3	3	2	
į	Females.	47	7	2	5	8	8	2	2	5	8	8	4	8	
ſ	Total	101	7	4	6	10	13	9	10	10	5	7	9	10	1
25	Males	59	2	2		8	7	6	6	5	4	3	8	7	3
l	Females.	42	5	2	6	2	6	3	4	5	1	4	1	8	
ſ	Total	82	5	11	5	4	9	8	10	7	4	8	5	6	
26	Males	83	3	4	3	1	4	3	5	3	1	2	2	2	
į	Females.	49	2	7	2	3	5	5	5	4	3	0	3	4	

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES		YEAR,						Mont	нв, 18	77.					
YEARS.	SEX.	1877.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Total	83	9		6	7	6	6	11	8	8	7	12	3	
17	Males	44	6		4	8	2	3	5	4	2	. 5	8	2	
	Females.	39	3		2	4	4	3	6		6	2	4	1	
	(Total	70	6	4	1	1	10	3	8	8	6	7	6	10	
38	Males	29	2	2		1	2	1	3	2	5	2	3	6	
	Females.	41	4	2	1		8	2	5	6	1	5	3	4	
	(Total	76	2	6	5	7	10	7	8	8	6	6	3	8	
9	Males	33	1	3	2	4	1	4	5	3	5	1	1	3	l
	Females .	43	1	3	3	3	9	3	3	5	1	5	2	5	l
	Total	118	7	6	16	14	9	10	6	10	12	10	9	9	
	Males	54	2	2	6	9	4	4	4	6	6	3	3	5	
	Females_	64	5	4	10	5	5	6	2	4	6	7	6	4	
	(Total	53	1	5	2	2	8	3	2	4	8	10	5	7	
1	Males	30	1	2	1	1	2	1	1	3	3	6	4		
	Females .	23		3	1	1	1	2	1	1	5	4	1	3	
	[Total	87	6	10	4	9	9	6	7	9	5	12	5	5	
(2	Males	45	2	5	2	5	4	3	4	4	1	7	3	5	
	Females .	42	4	5	2	4	5	3	3	5	4	5	2		
	[Total	60	4	5	5	n	4	8	7	3	3		3	7	
13	Males	27	2	3	3	4	1	6	1	2	1		3	1	
	Females .	33	2	2	2	7	3	2	6	1	2			6	
	(Total	74	4	4	9	6	5	4	7	8	4	6	9	7	
4	Males	32	1	3	3	4	3	4	4	2	2	3	1	2	
	Females .	1500	3	1	6	2	2		3	6	2	3	8	5	
	[Total		3	8	6	8	11	5	6	12	5	9	7	9	1
45	Males		3	6	3	5	8	4	6	4	2	5	3	5	
	Females.			2	3	3	3	1		8	3	4	4	4	
	[Total		3	4	2	3	7	7	3	5	7	5	9	8	
46	Males			4	1	2	2	2	1	4	4	2	4	6	
	Females.	0.00	3		1	1	5	5	2	1	8	3	5	2	
	(Total	74	6	5	5	5	8	5	6	9	8	3	8	6	
47	Males	23	3	4	2	4	3	1	3	6	6	9	5	3	-
	Females.	32	3	1	3	1	5	4	3	3	2	1	3	3	
	[Total	1	5	6		7	7	100	6	6	8	13	4	5	-
19	Males		3		7			7	3	3	3	6	2	3	
48	Females	1	2	2	7	4	4	5	3	1	5	7	2		
	The second second		4	4	7	3	3	2	(6)	3		8	1	2	
10	Total			6	11	8	10	3	9	8	12		11	4	
49	Males		3	4	6	5	5	2	7	5	9	4	6	1	
	(Females .	37	1	2	5	3	5	1	2	3	3	4	5	3	

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Mouths.

s		YEAR,	l					Mont	HS, 187	7.				•	
35.	SEX.	1877.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Total	70	6	2	6	6	5	4	8	3	8	9	6	7	
	Males	38	2	1	3	3	3	4	4	2	4	4	6	2	
	Females .	32	1 4	1	3	3	2		4	1	4	5		5	
1	Total	61	1	6	5	2	5	6	6	7	5	6	6	6	
	Males	32	1	1	3	2	3	3	5	3	4	1	3	3	
	Females .	29		5	2		2	3	1	4	1	5	8	3	
	Total	90	5	8	4	7	12	5	3	10	13	10	2	11.	
	Males	48	1	5	2	3	6	4	1	7	7	5	1	6	
	Females.	42	4	3	2	4	6	1	2	3	6	5	1	5	
-	Total	57	5	4	3	7	4	5	8	5	4	3	7	2	
	Males	30	3	2	2	2	2	4	5	2			3	1	
	Females .	27	2	2	1	5	2	1	3	3		3	4	1	
	Total	81	9	5	8	3	9	8	4	4	5	13	9	7	
	Males	53	5	3	5	9	7	4	2	2	5	7	6	5	
	Females.	31	4	2	3	1	2	4	2	2		6	3	2	
	Total	86	4	2	14	5	6	7	7	13	9	7	8	4	l
	Males	52	1	2	10	2	4	3	4	6	7	5	5	3	
	Females.	34	3		4	3	2	4	3	7	2	2	8	1	
	Total	73	3	2	9	10	9	4	8	6	5	3	6	8	
	Males	87	1		5	5	4	1	4	4	3	2	3	5	l
	Females	36	2	2	4	5	5	3	4	2	2	1	3	3	
	Total	73	3	3	6	5	5	10	4	6	9	5	9	8	
٠٠	Males	38	2	1	8	2	2	5	2	2	5	4	6	4	
	Females	35	1	2	3	3	3	5	2	4	4	1	3	4	
	Total	60	5	4	12	7	6	5	7	8	4	5	10	7	
	Males	44	5		7	4	4	3	4	4	2	2	6	3	
	Females	36		4	5	3	2	2	3	4	2	3	4	4	
	Total	75	3	6	10	6	6	5	3	11	8	4	6	7	
	Males	41	1	3	5	3	4	3	1	6	3	4	3	5	
	Females.	84	2	3	5	8	2	2	2	5	5		3	2	
	Total	126	8	9	12	10	10	9	8	7	13	15	15	9	
	Males	69	3	6	9	3	5	6	3	4	9	10	5	5	1
	Females.	57	5	3	3	7	5	3	5	3	4	5	10	4	
	Total	62	5	6	1	4	7	3	8	3	6	4	6	9	
	Males	43	5	2	1	2	3	3	8	1	6	2	3	7	
	Females	19		4		2	4			2		2	3	2	
	[Total	93	5	7	5	9	5	4	7	15	19	7	3	11	-
	Males	50	4	3	3	3	1	3	3	9	11	1	2 -	6	
	Females.	48	1	4	2	6	4	1	4	6	8	6	1	5	

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Mc

AGES	1	YEAR						Mont	ня, 187	7.		
YEARS.	SEX.	YEAR, 1877.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.
	Total	103	8	8	4	6	6	5	6	14	14	12
63	Males	49	6	2	2	2	4	4	8	7	5	3
	Females.	54	2	6	2	4	2	1	3	7	9	9
	Total	88	4	4	12	8	7	7	8	5	7	10
84	Males	46	2		8	4	2	4	5	8	4	5
	Females .	42	2	4	4	4	5	3	3	2	3	5
	Total	119	6	7	5	10	7	9	9	14	13	13
65	Males	68	2	5	1	6	3	5	5	5	11	8
	Females .	51	4	2	4	4	4	4	4	9	2	5
	Total	104	6	7	11	12	4	6	10	12	13	6
6	Males	58	4	4	9	8	2	2	5	7	7	5
	Females.	46	2	3	2	4	2	4	5	5	6	1
	Total	102	6	6	9	11	7	7	9	13	7	8
67	Males	64	5	3	6	7	4	4	6	8	5	5
	Females .	38	1	3	3	4	3	3	8	5	2	3
1	Total	114	7	10	9	14	14	6	7	6	11	12
88	Males	54	3	3	4	5	8	3	6	4	4	4
	Females	60	4	7	5	9	6	3	1	2	7	8
	Total	78	11	4	7	6	5	7	4	7	9	4
59	Males	43	4	2	5	5	2	5	3	4	4	2
	Females .	35	7	2	2	1	3	2	1	3	5	2
1.5	Total	111	7	7	11	8	12	8	10	13	8	9
70	Males	72	6	8	4	6	7	5	7	7	6	5
	Females.	39	1	1	7	2	5	3	3	6	2	4
	Total	68	4	3	6	10	4	4	5	9	5	5
71	Males	42	3	2	4	2	3	4	4	4	3	4
	Females.	26	1	1	2	8	1		1	5	2	1
	Total	103	11	1	6	13	9	7	6	4	13	16
72	Males	67	7		3	10	6	4	3	3	9	9
	Females .	36	4	1	3	3	3	3	3	1	4	7
	Total	71	5	5	6	3	6	5	7	5	8	5
78	Males	47	4	3	3	2	3	4	4	3	5	4
	Females.	24	1	2	3	1	3	1	3	2	3	1
	Total	109	6	4	9	10	9	7	7	21	11	11
74	Males	64	8	2	8	8	5	4	7	13	6	4
	Females	45	3	2	4	2	4	3		8	5	7
	Total	101	6	4	11	11	8	7	7	7	11	14
75	Males	56	3	4	3	6	4	5	5	6	5	7
	Females .	45	3		8	5	4	2	2	1	6	7

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES		YEAR,		•				Mont	на, 197	7.					
in Trars.	SEX.	1877.	Jap	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Total	85	9	4	8	4	12	6	2	5	8	6	11	9	1
76	Males	47	4	1	6	3	10	2	1	8	4	4	5	4	
	Females	38	5	8	2	ı	2	4	1	2	4	2	6	5	1
(	Total	102	5	5	2	12	14	5	7	9	11	15	10	7	
37	Males	66	4	5	2	7	9	8	6	5	8	7	6	4	
į	Females	36	1			5	5	2	1	4	3	8	4	3	
ſ	Total	85	4	6	8	13	7	1	6	14	6	8	7	6	
78	Males	56	1	4	7	9	4		6	8	3	6	4	4	
Į	Females .	29	3	2	1	8	3	1		6	8	2	3	2	
	Total	60	8	5	8	В	5	7	8	5	5	6	4	8	
79	Males	39	3	4	1	8	8	6	3	8	2	8	2	6	
	Females	21		1	2	3	2	1	•••••	2	8	8	2	2	
1	Total	76	6	9	9	7	6	8	7	6	6	6	4	7	
<b>80</b>	Males	44	1	8	6	4	4	3	4	4	8	5	4	8	
	Females.	82	5	6	8	3	2	•	3	2	8	1		4	
	Total	36	2	4	1	3	4		5	6	8	1	4	5	
81,	Males	23	1	2	1	1	8		4	4	•		3	4	
Ų	Females	13	1	2			1		1	2	3	1	1 -	1	
82	Total	87	3 2	3	3	5	6	1	1	1	8	1	5	7	
1	Males Females .	24	1	1	2	3 2	4	1	1	1	2		3	5 2	
(	Total	13 39	8	3	7	2	2	1	2		5	1 2	8	3	
8	Males	17	1	2	6		1	l	Ì	2	4	_		ı	
}	Females	22	2	1	1	2	3	1	2	ءِ ا	1	2	8	2	
	Total	46	2	2	•	5	6	8	•	5	5		ı	4	1
84	Males	28	2	2	2	8	8	2	1		2	3	;	8	
	Females.	18			2	2	3	1	3	li	3	1	ļ. <u></u> .	1	1
· ·	Total	31	5			2	6	1	3	6	3		4	1	
85	Males	19	4			1	4	1	1	4	1		8		
	Females.	12	1			1	2		2	2	2		1	1	
ì	Total	35	1	5	6	5	2	1	2	1	5	8	2	2	
86i	Males	19		2	5	2	2		1		1	2	2	2	
-	Females	16	1	8	1	3		1	1	1	4	1			
(	Total	44		2	3	6	4	4	4	6		8	4	4	
87{	Males	23		1	1	4	3	<b> </b> -	2	2	2	8	3	2	
{	Females	21	 	1	2	2	1	4	2	4	2		1	2	
ſ	Total	26	3	1	8	2		3		4	5		2	8	
88,	Males	15	1		2	2		2		2	8		2	1	
Į.	Bemales.	11	2	1	1	<b> </b> -		1		2	2			2	

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

AGES	{	YEAR,						Mon	r <b>HS,</b> 18	77.					
IN YEARS.	SEX.	1877.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Ang.	Sept.	Oct.	Nov.	Dec.	Unk.
1	Total	15	3	2	4					1	2	1		2	
19	Males	5		1							2			2	
- 1	Females.	10	3	1	4					1		1			
1	Total	9	2			1	1	1	1			1		2	
0	Males	8				1		1				1			
	Females.	6	2				1		1					2	
1	Total	12	****	4	1	1	1		1	1	1		1	1	
1	Males	10		4	1	<b></b> -	1		1	1	1		1		
	Females.	2				1								1	
!	Total	5			1		1				2			1	
2	Males	4					1				2			1	
1	Females.	1			1	<b></b>									
8	.Females.	5			1				*****	2	1		1		
1	Total	8	1						*****	1		****	1		
4	Males	1	1												
İ	Females	2						*****		1			1		
5	.Males	3	••••			1				1	1				
!	Total	3				ļ			1	1		1			
8	Males	1	••••			<b> </b> -				1					
:	(Females	2		****			*****		1			1			
)7	.Females	2	1							1					
98	.Males	8	****	****				1			1			1	
9	.Females.	1				ļ	1								
100	.Males	1	••••										1		
101	Females	1	1			ļ			*****						
107	Males	1			1										
09	Males	1					1								
122	Males	1									1				
	Total	231	17	16	22	19	14	12	15	20	22	12	22	18	1
Unknown -	Males	123	11	9	13	12	3	7	6	10	14	9	14	6	
<b>- </b>	Females.	98	5	7	8	7	10	5	8	10	8	3	7	8	1
	Unknown	10	1		1		1		1				1	4	

## INFANT MORTALITY.

Exhibit 2 shows the relation of the still births to all decedents, for each of the years 1872 to 1877, inclusive. The per cent. of still-births to all decedents was greater in 1877 than in any previous year.

EXHIBIT 2.—The Relation of Still-births to All Persons Returned as having Died in Michigan during the several Years 1872 to 1877, inclusive. (Still-births for 1874 to 1877, inclusive, corrected by means of the Returns of Births.)

	To	TAL DE	ATHS A	ND STIL	L-Birth	18.
	1872,	1873.	1874.	1875.	1876.	1877.
Total Number of Deaths	13,371	14,258	12,500	11,990	12,576	12,919
Number of Still-births	<b>204</b>	a 274	464	629	646	720
Per Cent. of Still-births to Total Deaths	1.53	1.22	8.71	5.25	5.14	5.57

<sup>.</sup> As per returns of deaths.

The proportion of children born in 1876 who died aged under one year was 9.57 per cent., as shown by Exhibit 3, page 128. This proportion is less than was shown for either of the years 1876, 1875, or 1873, but slightly greater than shown for 1874 or 1872. In each of the years 1872–1877 the proportion of the males was greater than of the females, the average excess of the proportion of males over females for the six years 1872–1877 being 1.83 per cent. The largest proportion of children born in 1876 who died aged under one year is shown for those born in April, the smallest for those born in December. It should be borne in mind that probably a much larger proportion of the births during the former months of the year were omitted in the enumeration than of those during the latter months.

The respective months of the years 1876 and 1877 in which occurred the deaths of the children born in 1876 who died aged under one year, are shown in Exhibit 4, page 129. The third column from the last shows what proportion of such children died during the month of birth. The largest proportion is shown for December, the smallest for February. In the last column may be studied, by months, the proportion of the children born in 1876 who died during the month of birth. The largest per cent is shown for August, the smallest for June. The popular statement of the interpretation of these data is that the children born in June are most likely to live through the month of birth, while those born in August are most liable to die during the month of birth. According to this exhibit, 4.21 per cent. of the children born in 1876 died during the month of birth.

	187 187				Mo	MONTHS	40	DRATH,	a, 1976,	18,							Mo	Момтив	40	DEATH,		1877.				apa	No.	n p
DE BIRTHS, 1876.	Byrn in Died un Year of	Jen	Feb.	Mar.	April.	May.	June	.que	'Sny	dag	Oot	Nov.	Dec	Jan.	Feb.	Mark	Aprill	-garg	June,	'Amp	Suy	gebr	Joo	, vo X	Dec.	Per Cent. Aged un I month	1876, us 1876, us turned	Per Cent Children Died age der Im der I U
Born in 1876 died   aged under 1 Yr.	3,328	1 82	103	186	170	111	156	500	430	873	242	155	163	2	8	1 20	138	\$	1 35	188	106	25	2	-	H		1C1'fg q	1 :
January	241	188	12/	12	13/	10/	10/	12	18	18	12/	17	19	11/	1	11			1:			1		1	1	38,51	2,283	88.99
February	247	1	18	=	2	2	22	81	8	9	10/	0	-/	0	1/	1	1	1		1	1	-	1	1	1	34.01	2,352	8,5
March	788	1	1	98	91	2	2	8	8	67	=	0	=	1	01	1			1	-	- 1		1	1	1	44,37	2,744	4.59
ΑρτίΙ	307	1	1	/	81	a	=	8	8	5	10	3/	3	1	10)	1-/	1	1	i	1	1	1	1	1	1	41.69	2,730	4,69
Мау	309	1	1	1	1	191	=	5	2	73/	9	0	10/	0)	1-/	10/	2	1		- 1	- 1	1	- [	1	í	37,54	9,870	4.0
June	262	- 1	1	1	T	1	15	18	23	13	15/	0	00	0)	1-	0	10	3	1	i	1	1	1	1	1	37.02	2,739	3.5
July	250	1	- 1	1	- (	ī	1	1	13	8	1	100	=	0	3/	21/	10	1-	2	1	Ť	-1	1	1	1	44.23	3,011	4.11
August	300	1	-1	1	- 1	- 1	-	1	18	3	9	15	(3)	10	27	10	10)	2	10/	2	1	1	1		T	50.98	8 124	4.98
September	8	- 1				- 1	- 1		1	25	6	81	=	19	0	22	10	0	1-	21	B	1/	1	i	1	46,32	3,110	4.9
October	265	1	- 1	1	1	- 1		-	-1	1	19	12	15	22	12	10	9	-	10	21	21	1=	1	1	1	43.40	3,039	3,78
November	970		1	į	- 1	- 1	- ;	1	1		1	1	8	19	10)	(=)	10	10	2/	2	150	12	10	1	*	41.07	2,921	4.07
December	272	1			-	-		1	i	1	1	1	13	=	2	2	10	10	=	6	51	19	19,	1-	1/	56.95	3,203	4.77
Deaths at Deaths. Agos in Months	8,328		111	111	111	111						111	111	1438	1 285	12 04 04	50 50 50 50 50	193	172	161	130	197	65	100	3 F	43.21	6 34,131	6.9

	!	Сиг	Сиггрвви Вови им 1876.	RN IN 1	876.		×	MALES BORN IN 1876.	8N IN 187	.92		F	FEMALES BORN IN	DRN 1N 1	1876.
Births in 1876, as Returned	<del></del>	Died during the Year 1876.	Died Aged under 1 Year during the Year 1877.	Total Died Aged under 1 Year.	Per Cent. of Deaths under 1 to Births.	Births of Males in 1876, as Returned.	Died during the Year 1876.	Died Aged under 1 Year during the Year 1877.	Total Dicd Aged under 1 Year.	Per Cent. of Deaths under 1 to births.	Births of Females in 1876, as Returned,	Died during the Year 1876.	Died Aged under 1 Year during the Year 1877.	Total Died Aged under 1 Year.	Per Cent. of Deaths under 1 to Births.
#	34,131	2,694	ឌី	3,328	9.75	17,698	1,545	831	1,896	10.71	16,379	1,149	283	1,432	8.74
04	2,283	176		241	10.56	1,149	138		135	11.75	1,132	106		106	9.38
	2,332	214	က	247	10.50	1,243	127	64	821	10.38	1,104	117	1	118	10.69
	2,744	878	9	182	10.35	1,449	. 151	7	135	10.70	1,239	197	01	129	10.01
ei .	2,730	765	91	307	11.25	1,441	170	•	171	12.07	1,386	127	9	133	10.34
61	2,870	233	77	808	10.77	1,471	365	13	111	12.03	1,307	81	13	132	9.45
	2,730	722	28	362	9.57	1,409	132	ន	157	11.14	1,325	8	13	105	7,92
	3,014	83	28	23	9.39	1,533	147	ន	170	11.00	1,481	88	27	110	7.48
	3,124	237	69	306	9.80	1,592	23	87	176	11.06	1,525	32	20	130	8.52
<u>ສັ</u>	3,110	195	2	282	9.16	1,619	100	47	156	<b>59.6</b>	1,487	2	43	139	8.68
es :	3,030	163	201	265	8.73	1,595	8	ಕ	164	10.28	1,440	8	38	101	7.01
01	2,921	147	123	270	9.24	1,532	<b>28</b>	8	153	9.99	1,884	8	28	111	8.65
	3,205	153	119	272	8.49	1,667	83	8	150	8.0	1,539	11	19	122	7.88

TABLE IX.—Deaths in Michigan during the Year 1877 of those Aged One hundred Years and Over, Exhibiting certain Details concerning them included the field in the fillens.

NAMES			Married,		AGE.	pi .		PLACE OF	PLACE OF DEATH.	DATE OF DEATH, 1817.	ATH,	Cause
CENTENARIANS, 1877.	SEX.	Color.	or Widowed.	Birthplace.	Year.	Month.	Occupation.	Тожв.	County.	Month.	Day.	
Elic Sheppard Ma	Male	White.	Widower	de White. Widower. France	133		Unknown	Crystal	Oceana	Unknown Crystal Oceana September 10 Old Age.	92	Old Age.
Lewis Jacobs Male White. Married Michigan	Male	White.	Married	Michigan	100		Not given	Erie	Monroe	Not given Erie Monroe November		11 Old Age.
Andrew Hartman Male White. Widower . New York	Male	White.	Widower.	New York	107	•	Minister Mayfield I.apeer March	Mayfield	Lapeer	March	58	Dobility.
John Smith Male White. Widower New York	Male	White.	Widower	New York	601		Baker	Attics	Lapeer	Baker Attica Lapeer May		18 Lung Fever.
Mary McEvoy   Fe1	Female.	White.	Widow	male., White. Widow Ireland	101	×	None	Detroit	Wayne	None Detroit Wayne January		14 Debility.

. Not stated.

		YEAR.						Mo	MONTHS, 1877.	77.					
-	SEX, ETC., SPECIFIED.	1877.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Births.	33,395	2,212	2,246	2,690	2,655	2,683	2,657	608'6	8,227	8,048	3,015	2,817	8,145	=
	Total   Deaths aged under one month	1,598	£	133	134	112	25	110	12:5	163	123	119	131	178	9
	Per Cent. of Deaths to Births	4.78	4.29	5.48	5.73	4.22	4.58	4.14	4.21	5.03	90.4	<b>76.7</b>	4.95	5.68	8.45
	Births	17,227	1,187	1, 192	1,372	1,421	1,314	1,331	1,514	1,664	1, 30	1,501	1,446	1,631	ಪ
	Males   Deaths aged under one month	917	10	67	16	92	72	8	67	8	63	86	11	101	ø
	Per Cent. of Deaths to Births	5.32	4.30	5.62	6.13	5.35	5.8¥	4.73	4.43	5.35	4.05	6.83	5.33	6.19	8.83
	Births	16,109	1,421	1,033	1,303	1,229	1,365	1,333	1,381	1,560	1,514	1,423	1,393	1,507	23
les.	Females.   Deaths aged under one month	614	<b>3</b>	22	8	83	7	\$	53	73	8	2	28	. 76	04
	Per Cent. of Deaths to Births	4.00	<b>4</b> .11	6.22	4.38	2.85	3.00	3.40	3.84	4.0%	3.70	3.79	4.03	9.04	6.25
	Births	69	•	1	01	10	+	80	*	80	4	7	TO .	7	•
	Deaths aged under one month	37	8	-	1	-	10	64	63	-	7	61	80	-	-

Table IX. shows certain data concerning the decedents in this State in 1877 aged one were five such decedents in 1877, and the average age of the five was 108 years.

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Actes in Section 1
AOUR IN PERIODS OF YOURSELF.    00   00   00   00   00   00
AOUR IN PERIODS OF YOURSELF.    20   20   20   20   20   20   20   2
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ACUSE IX PERIODS OF YEARS, 1877.  ACUSE
AOVE 1X PERIODS OF YEARS, 1877.  AOVE 13 15 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
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EXHIBIT H.—Counties and Townships from which no Returns of Deaths for 1877 were received by this Department, showing Population in 1874, by Sex.

	TOWNSHIPS FROM WHICH	Po	PULATION, 1	87 <b>4.</b>
COUNTIES.	NO RETURNS OF DEATHS FOR 1877 WERE RECEIVED.	Total.	Males.	Females.
Total		12,871	7,240	5,631
Antrim	Torch Lake	164	90	74
Berrien	Lincoln	1,122	611	511
Cheboygan	Benton	1,488	85#	681
	Detour	221	131	90
Chippewa	Sugar Island	332	173	159
	Frostb			
Clare	Hayes b	ļ. <b></b> .		
•	} Sheridan		125	87
	Winterfield	23	18	15
W	Friendships			••••
Emmet	Maple Riverb			
Gladwin	Grout		64	53
Isabella	Deerdeldb			
Isle Royalb	-		4	
Mackinac	Holmes		406	392
Manitou	Chandler		89	64
manitou	South Manitou			
	Breenb			
	Breitungb	1	1	
Menominee	Cedarville		159	83
	Spauldingb	ľ		
	(Stephensonb	1	ı	
•	Belvidere	123	75	48
Montcalm	Reynolds		781	540
25	[Richland	i	53	64
Muskegon	Montague		746	614
Newaygo	Denver		399	856
	Norwich	1	109	63
Ogemawab	All townships		153	54
Otsegob	Charltonb			
Otsego	Livingstonb			
•	( Dentonb			
Roscommonb	IIIgginsb			
	( Munising		820	152
Schoolcraft	Onota		320 309	208
	Burchville	716	393	323
	Clay		716	668
St. Clair	East China	232	130	10-3
	Lynn	464	266	198
	( Harring	199	119	80
Wexford	lst, 2d, & 3d wards, Cadillaca	• • •	113	30
	. 201, and the marrie, Callinate	•		

County Clerk says there were no returns of deaths from the Supervisor.
 Organized since Census was taken.
 Census not returned.

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1877	AB8,	.65 to 55.	4	61	C1	=		9	15	<u>-c</u>	۲-	22	3	ន	<u>:</u>		•	+
		45 to 50.	6		-	22	- 5	9	_			-22	2	- <del>"</del>	<u>:</u>			
by Age,	PERIODS OF	40 10 45.		8	- es				_	- 6		-2	93	- <del></del>	<del>-</del>			<del>-</del>
'n	10D	35 to 40.	9	- 23	<del></del> -	_	- 22		<u></u> -	23	_							
q p	PE	.68 or 08				2						8	<b>.</b>	<b>\$</b>				
an	NI 8	.08 of 62		24		9	_	<u> </u>		-		96 	28	9			<u>. :</u>	<u>:</u>
18,	AGES IN	20 to 25.	6	04		=		20	23	90	===	₹		జ		-		<u>:</u>
font	'	J2 to 20.	열	89	G	20	ຕ	8	12	9	ອີ	:	-35 	5		:		Ī
by Months, and		10 to 15.	-	64	01	9	*	64	22	*	6	3	8	ही	-	-		:
, .	! !	5 to 10.	2	ю.	•	30	6		=	•	9	38	2	3	i	C4	_	_
Sex,	<u> </u>	Under 5.	3	153	88	33	88	3	101	8	<b>\$</b>	9	107	\$	•0	2	G	7
by		Unknown.	<u> </u>	-:	-:	-:	-;	-:	;	-:	-;	=	9	1-	:	-;	— <u>:</u>	-:
6.		Десешрет.	2	+	8	S	2	80	3	13	6	<b>F1</b> 5	55	8	C1	64	01	T
ties		November.	29	9	2	18	80	=	83	16	2	3	8	88	-	ī	ī	Ť
'on'		October.	=	90	9	16	œ	00	33	ဂူ	2	162	88	73	<u> </u>	+	64	61
y C		September.	9	S	20	21	Ξ	Ξ	33	12	15	3	28	2	÷	9	10	_
18 6	77.	August.	ន	6	Ξ	22	10	2	19	137	75	248	83	8	<del>-</del>	m	တ	-
eath	Моитнв, 1377	. Հլու	20	2	က	ફ	6	=	77	2	Ξ	213	33	91	=	-	:	<del>-</del>
<u>–</u>	MIN	June.	12	61	6		4	6	ठर	13	Ξ	131	26	8	_	_	<u>-</u>	<u> </u>
-Continued.—Deaths by Counties,	MG	.YaM	80			50	7	22	æ	23	ଛ	7	8	88	_	61	i	61
N G		Урчг.	16	7	33	11	6	<b>6</b> 0	75	12	13	176	103	23		*		61
NTI		Матсћ.	19	<b>a</b> o	Ξ	15	21	13	22	23	<b></b>	26	8	2	61	_	•	_
ဝို		February.	6	<u>e</u>	9	18	6	-	8	2	=	9	8		;	_	ì	
X		January.			8	7	80		क्ष	ø,	21	8	8	8	-	_	<del>-</del>	-
E		·	164	92	<b>22</b>	818	8	911	362		92.1	- 120 1	197	796	<u>-</u> :	क्ष	- 12	긎
		XEAR, 1877.				۰,	_		<b>-</b> 50			2,1	=					
TABI		SEX.	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females.	Unknown	(Total	Males	Females
		COUNTIES.		Tuscola			Van Buren.	_		Washtenaw. Males				Wayne			Wexford   Males	_

		1			6	10		-	-				ć																6	į.	9
	(Total)	9	-				-	-	-		-	-	0	-	-	90	1	-		Cr.	1			1					-		
olel o'pee	Presq'o Islo   Mal66	01	1	000				_				_	_	_	:	9	1	_	1	1	1	;	1	ł	L				1		
•	Femalos.	0	-	1	-	1				ा	-	40		_ !	_	98	1			04	1		-		-1	1	1	01	-	1	- 1
scommon	RoscommonFomales	-	1	-	-	1	- 1	i	-			-	1	3	- 1	69	Ì	ů ů	-	1	1	- 0	-	_ 1			-	- 1	1	_	-
	Total	3	30	88	40	38	7		_	88	99			_	_	279	19	17	13	55	_									_	1
!	Males	87.5	17	15	18	83	20	18	16	4	Se	27	88	84	01	120	22	6	10	25			6.			01 0		6	9	9	00
sagina w	Fomalos.	200	133	60	21	15	9			85	31			61	_	53	7	90	œ	10								_			6 7
	Unknown	+	1		1	i		į			1		- 1	-;	_	*	- 1		1	1				. 1	1	1	- 1	1	_	4	- 1
	Total	38	00	13	00	20					13				_	79	16	7	=	KG								00	00	9	00
Sanilac	Males	85	00	60	01	7	•				00			2	_1	33	1-	01	01	C1							1	00	01	60	1 7
	Fomales.	108	10	90	9	13		69	9		=	14				\$	6	NO.	co.	00	00					1		50	9	93	60
	Total	40	1		1	-	i i	i			4	- 4		1	1	Q1	-		1	Ų	1	_		1		-	1	1	- 1	-	÷
hoolcraft.	Schoolcraft.   Males	es	1	1	:	1	- 5	1	-		1	-		- ;	1	-	-	=	1	1	4			- 3.	4	1	1	- 1	2	0	- 1
	Females.	CI	1			-	10	i			T	- 1		1	1	1		1		1			_	1		- 1	- 1	+	1	-	1
	Total	82	G	5	00	10	15				21					53	O.	9		9								4	9	00	9
	Ма108	35	10		00	*	10	90	-	6	6	30	9	12	1	30	19	20	10	01	20	9	-		-	64			63	10	_
Silin wassed	Females.	23	*	- 12	0	9	9				13	-		*	_	61	*	00	*	**				61				4	60	00	
	Unknown	-	1			1		1	1	- :	:		. 1	1	1	1		- 1	:	1	- 1	_	1	:	- 1	- 1	-	-	1	i	-
	Total	324	50	80	65	19	64				40				7	130	16	13	22	00	16						_	8	23	7	13 17
	Males	791	10	13	15	S	п		=	81	18	17		19	-	63	10	=	*	10	10	7	9	YG	93	0	-	4	9	10	00
ot. Ciair	Females.	157	10	22	=	9	9				55				1	65	9	61	20	00	=							44	9	00	5 9
	Unknown	89	1		- 1	:				-	13	i		- }	1	00		:	- 1	- 1		- 1	1	1	-	1	1	- :	- :	1	1
	Total	13%	13	15	54	50		13	=	23	21	11			1	64	=	9	9	9	20	4						8 11	6	=	9 18
Joseph	St. Joseph   Males	100	9	2	10	20				10	15	00	63	6	1	37	2	•	*		10	_1	09		8	01		4	-	0	5 12
	Females.	18	1	90	=	10	13		9	133	10				1	27	9	8	01		63	*			-			-	a	0	

	TABI	BLE		9	CKO	INI	OED.	j	Dea	<i>t</i> /18	рд	X.—Continued.—Deaths by Counties, by	ntu	38,	бд	Sea	 	ø A	To II	t/18,	an	d b	Sex, by Months, and by Age,	g <b>e</b> ,	78	1877,						
							N	MONTHS,	HS,	1877.	2.41			ļ			! :	! !		AGE	AGES IN		PERIODS OF	3 04		YEARS, 1877.	1877.		:	l		•
COUNTIES.	SEX.	XEAR, 1877.	January.	February.	матећ.	April.	May.	June.	Jaly.	August.	September.	October.	уометрет.	December.	Опкломп.	Under 5.	5 to 10.	.6I os 0I	15 to 20.	20 10 25.	25 to 30.	.08 01 08	35 to 40.	40 to 45.	45 to 50.	50 to 55,	.09 of 55	.60 to 65.	65 to 70.	.67 01 07	.08 of dT	Heand over.
	[ Total	164	7	6	19	16	00	21	30	8	16	14	16	10	:	29	10	7	15			II of	9	9		-	00	00	2 11	_	60	9
Tuscola   Males	Males	76	-	63	œ	7	6	12	2	6	90	90	9	-	_:	27	5	04	60	49	**	01	G1	60	-	01	04	01	4 6	-	60	7
	Females	88	9	9	11	6	63	6	80	=	30	9	10	_	1	65	0	01	9		-	10	_	100	10	01	-	-	1 5	01	- 1	64
	Total	218	14	16	27	17	50	13	20	15	61	16	18	8	:	59	9	9	20	7	16	3 10		9 1	61	-	00	-	7 12	=	133	9
Van Buren	Males	102	00	6	19	6	7	7	6	10	=	au		13	1	83	10	*	60	-	10.00	-	50	_	100	40	01	G1	61	00	0	10
	Females	116	9	7	15	90	13	6	11	10	=	80	9		;	20	-	64	64	00		6	-	- 00	9	9	9	9	5 7	00	7	10
	Total	362	50	30	27	25	83	54	76	51	650	55	88	50	1	101	=	13	15	0.5	133		7 19	-	10	15 I	12	12 21	1 20	65	25	23
Washtenaw.   Males	Males	186	80	19	138	15	13	13	13	27	17	50	16		61	00	40	*	9	90	1177	-	89	6	9	49	9	7	6 13	15	12	2
	Females	176	13	11	14	12	90	11	=	22	15	15	15	19	1	42	9	6	9	13		9	4 IO		*	-	9	2	15 7	7	10	=
	Total	2,170	160	149	182	176	144	151	243	248	160	162	164	214	17	900	128	09	11	25	96	88	98		75 7	78 5	21 6	61 72	2 75	99	4	90
	Males	197	8	81	108	103	85	28	132	139	88	88	8	120	01 0	491	20	60	22	48	20	49	9 52	39		52	36	37 39	9 32	88	30	21
м вупе	Females.	964	80	89	75	73	28	68	110	109	71	73	88	95	-	101	58	8	43	36	46	3 40	34	98 1		25 1	15	24 33	3 43	27	11	65
	Unknown	6	1	1	C.I	1	-	-	-	1	7	i	Ĺ		:	10	1	- 1	-	1	1	•	1	1	- 4	1		+	+	- 1	1	:
	(Total	55	-		-	99	01	-	-	23	9	*	1	-	:	16	01	-	1	1	•	-			-	-	-	+	04	1		1
Vexford   Males	Males	15	1	1	1	-	1	-		63	10	64	1	- 54	61	6	-		- 1		1	-	-		-	-	-	+	01	-	-1	- (
	Females	10	1	-	-	C.	04	i	7	1	-	64	1		1	7	-	1	1			177	1	1		-	,	-	1		1	1

TABLE XII.—Exhibiting, by Number and by Sex, for the State and Counties.

the Color of All Persons Returned as having Died in Michigan during the
Year ending December 31, 1877.

Sm . ==	ALL	Color	s.—1877			WHIT	K.		BL	A C1	٤,		TTC	<b>)</b> .	INI	)IA	x.	UN	EX	ow	H
STATE AND COUNTIES.	Total.	Malcs.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Water Street, or other
State	12,919	6,827	6,040	52	12,569	6,658	5,875	36	n 74	41	33	33	15	18	ь 93	51	42	150	62	72	1
Alcona	11	7	4		11	7	4	-									_		-		1
Allegan	249	135	112	2	246	134	110	2	1		1	2	1	1							1
Alpena	85	22	13		35	22	13														١
Antrim	52	83	19		51	3:2	19								1	1			_		I
Baraga	20	11	9		12	8	4							_	0.8	3	5		_		١
Barry	216	112	103		216	112	103														1
Bay	287	173	114		279	168	111		3	1	2				5	4	1				ľ
Benzie	32	19	13		20	17	12	100	3	2	1										١
Berrien	259	133	125		255	131	124	150	2	1	1					Ũ	Ü	1	1	-	١
Branch	281	128	153		281	128	153	20			Ē									-	١
Calhous	830	178	151	1	294	163	130	1	1	Ü	1	2		2	10.79	-	2	31	15	10	١
Cass	166	91	75		151	85	66		1	-	1	14	6		1	-	16				ı
Charlovoix	32	16	15	1	27	12	14	1	3	2	1	13	1	Ĩ	2	2	1				l
Che Doygan	28	19	9		24	17	7	1		Ĩ	1	****		-	4 4	2	2			-	ı
Di Dpowa	11	8	3		7	6	1			-		****		**	0 4	91	18				١
212 Fe	18	11	7		18	11	7									2		100	-	**	١
lim ton	182	96	86		181	95	80	-			-	****				**			-	••	ı
De1 £ 1	50	22	28		49	93	27	-	1	1	-						-		**		١
Eaton			- 1	••					••••		-		-		1	7	1	****	-		ŀ
E E E E E E E E E E E E E E E E E E E	215	10s	107	•-	214	108	106		••••		**	1		1		-	1		**	**	l
esce	32	16	16	•	12	5	7		****	••	-	****	7	0.7	1 20	11	9		•		ŀ
Glasses	268	146	120	2	263	144	119		2	1	1	1	1			••	•	2			ı
G La ciwin	8	7	1		8	7	1		••••	**		****	•-	**	*	•••	••				ŀ
G Traverse.	67	33	34	•-	67	33	34			-					****				-		ŀ
Gratiot	145	75	69	1	145	75	60	1											• •		
ladale	287	143	144		286	143	143		i = i	-	1										
ughton	253	127	116	10	245	127	116	2										8			
ron	87	47	40		87	47	40				]										
En Sham	181	87	91	3	178	87	90	1	51		1							2			ľ

I male and 5 females "Colored."

5 males and 8 females "Half-breed," 1 female "Red," and 2 males and 1 female White and I male and 5 females "Half-breed."

1 male and 1 female "Half-breed."

2 males and 2 females "Half-breed."

1 male "Half-breed."

1 male "Half-breed."

1 female "Colored."

TABLE XII.—CONTINUED.—Deaths by Counties, by Color, and by Sex.

	ALL	Color	s,—187	7.		Whit	z.		BL	LACK. MU- LATTO. INDIAN						N.	UNENOWN,				
COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Unknown.
Ionia	211	124	85	2	208	122	84	2	a 3	2	1									_	1
Iosco	28	15	13	ļ	28	15	13					****								_	
Isabella	72	36	36		60	29	31								b 12	7	5				
Isle Royalc																					
Jackson	366	201	165		366	201	165														
Kalamazoo	317	161	156		312	157	155		5	4	1										
Kalkaska	18	10	8		18	10	8												_		
Kent	633	326	303	4	625	324	299	2	2	100	2	4	2	2				2	3		1
Kewcenaw	68	43	23		68	43	23														1.
Lake	20	8	12		20	8	12									_					
Lapcer	229	116	112	1	229	116	112	1								_		1			i.,
Leelanaw	48	24	24		42	21	21								6	3	3				
Lenawec	390	208	181	1	382	203	178	1	8	5	3										
Livingston	182	105	77		181	105	76		1		1										
Mackinac	16	7	8	1	10	4	6					1		1	4 4	3	100	1			,
Macomb	269	146	123		269	146	123														Ľ
Manistee	101	56	45		101	56	45														
Manitou	10	4	6		10	4	6														
Marquette	232	139	93		232	139	93				8										
Mason	34	16	17	ı	34	16	17	1													
Mecosta	60	30	30		59	29	30								1	1					1.
Menominee	14	10	4		14	10	4	ũ												ij	
Midland	58	32	26		58	32	26					7								G	
Missaukce	9	7	2		9	7	2														Ü
Monroe	265	133	132		264	133	131		1		1										
Montcalm	144	63	81		143	62	81					1	1								
Muskegon	115	62	52	1	115	62	52	1									3				-
Newaygo	64	27	37	_			. 53								2		2	100		35	
Oakland	324	161	162	1	319	159	159	1	3	9	1	2		2			E			~	
Oceana	92	45	46	1	85	42	42	1							7	3	4				
Ogemaw																				ï	-
Ontonagon	18	7	11		18	7	11								****	ï					
Osceola	64	44	20		63	43	20		1	1										•	
OBC6010		**	-0		"	ا ت	20	"	1	*	**	****	"	75		**				-	1

<sup>• 1</sup> male "Colored."
• 1 female "Red."
• No returns of deaths to this Department.
• 2 males and 1 female White and Indian.
• County Clerk says no returns from Supervisors.

TABLE XII.—Continued.—Deaths by Counties, by Color, and by Sex.

	ALL	Colors	,—1877	٠.		WHITE	<b>.</b>		BL	A C I	c.		TTC	٥.	IXI	DIA	x.	UNENOWN.			
COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Unknown.
Otsego	6	1	 5		6	1	5													1	
Ottawa	274	162	111	1	200	159	109	1	1	1					1		-	3	2	1	
Presque Isle	19	10	9		19	10	9														
Rossommon	4		4		4		4		****												
Seginaw	535	278	253	4	522	270	248	4	1						12	8	_				
Sanilac	186	78	108		186	78	108			_						į					
Schooleraft		3	2		5	3	2														
Shiawassee	158	84	78	1	158	84	73	1											1.		
St. Clair	324	164	157	3	286	146	139	2	1	1								37	17	19	1
St. Joseph	199	* 102	97		195	99	96		3	2	1	1	1								
Tuscola	164	76	88		163	75	85								1	1					
Van Buren	218	102	116		213	99	114		. 4	2	2	1	1								
Washtenaw	362	186	176		257	185	172		b 4	1	3	1		1							
Wayne	2,170	1,197	964	9	2,150	1,183	938	9	17	12	5	2	2					1		1	
Wexford	25	15	10		25	15	10														

a 1 female "Colored."
b 3 females "Colored."

HIBIT 6.—Nativity of Decedents in Michigan during each of the Years 1873-1877, according to the Returns.

YTIVITAK	Dra 18	THS, 73.	DEA 1S	тна, 74.	DEA 18	ти», 75.	DEA 18		DEA 18		Av. of 8 years ending with 1876.		
OF DECEDENTS.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	
All Mativities	14,258	100.00	12,500	100.00	11,990	100.00	12,576	100.00	12,919	100.00	11,792	100.00	
Foreign	11,602 2,340		9,937 2,12s	79.50 17.02	9,573 2,106		10,147			79.77 17.42			
Caknown	316		435	3.48	311		1 1	2.79	i			3.07	

<sup>19-1877.</sup> 

TABLE XIII.—Exhibiting, by Number and by Sex, for the State and Counties, the Nativity of all Persons Returned as having Died in Michigan during the Year ending December 31, 1877.

											<u>.                                    </u>				
	ALL	NATIVI	TIES, 1	877.		NATI	VE.		F	OREIGN	•		UNKN	OWH.	
STATE AND COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Tatal.	Males.	Females.	Total.	Males.	Females.	Unknown.
State	12,919	6,827	6,040	52	10,305	5,363	4,896	46	2,251	1,272	979	<b>a</b> 363	192	165	6
Alcona	11	7	4		9	5	4		2	2					
Allegan	249	185	112	2	195	108	85	2	49	26	23	5	1	4	
Alpena	85	22	13		26	15	11		8	6	2	1	1	•••••	
Antrim	52	33	19		47	30	17		5	3	2				
Baraga	20	11	9		12	6	6		4	2	2	4	8	1	
Barry	216	112	103	1	191	100	90	1	25	12	13				
Вау	287	173	114		223	137	86		55	28	27	9	8	1	
Benzie	32	19	13	<b>.</b>	29	18	11		3	1	2				<b> </b> -
Berrien	258	183	125		213	108	105		28	17	11	17	8	9	
Branch	281	128	.153		254	115	139		20	12	8	7	' 1	6	
Calhoun	830	178	151	1	286	153	132	1	32	19	13	12	6	6	
Cass	166	91	75		148	79	69		11	8	3	7	4	8	
Charlevoix	82	16	15	1	28	15	13		3	1	2	1			1
Cheboygan	28	19	9		25	17	8		3	2	1			•	
Chippewa	11	8	3		6	4	2		5	4	1				
Clare	18	11	7		9	5	4		2	1	1	7	5	2	
Clinton	182	96	86		159	84	75		22	11	11	1	1		
Delta	50	22	28		86	15	21		12	6	6	2	1	1	
Eaton	215	108	107		191	98	93		13	8	5	11	2	9	
Emmet	82	16	16		32	16	16								
Genesce	268	146	120	2	231	125	105	1	83	19	14	4	2	1	1
Gladwin	8	- 7	1		4	8	1		2	2		2	2		
Gr. Traverse	67	33	34		61	30	31		6	8	8				
Gratiot	145	75	69	1	132	<b>6</b> 8	63	1	10	6	4	3	1	2	
Hillsdale	287	143	144		265	129	1 <b>3</b> 6		16	9	7	6	5	1	
Houghton	253	127	116	10	216	104	102	10	87	23	14				
Huron	87	47	40	•	62	83	29		25	14	11				
Ingham	181	87	91	3	155	72	80	8	20	12	8	6	3	8	
Ionia	211	124	85	2	184	111	71	2	24	11	13	8	. 8	1	••••
Iosco	28	15	13		19	8	11		9	7	2				
Isabella	72	36	36		63	83	<b>3</b> 0		8	2	6	1	1		

<sup>• 6</sup> males and 3 females "America."

TABLE XIII.—CONTINUED.—Deaths by Counties, Nativity, and Sex.

	ALL :	Nativi	TIES, 1	877.		NATI	VE.		F	BEIGN			Unkn	owx.	
COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Unknown.
Isle Royal.															
Jackson	366	201	165		315	170	145		44	27	17	7	4	3	
Kalamazoo	317	161	156		256	185	121		52	22	80	9	. 4	5	<b> </b>
Kalkaska	18	10	8		15	8	7		2	1	1	1	1	<b></b>	ļ
Kent	633	326	803	4	493	250	239	4	115	64	51	<b>&gt;</b> 25	12	13	<b> </b>
Keweenaw	<b>6</b> 6	43	23		52	33	19		13	9	4	1	1	<b></b> -	
Lako	20	8	12		18	8	10		2		2			<b></b> .	j
Lapeer	229	116	112	1	183	92	90	1	42	23	19	4	1	8	
Leelanaw	48	24	24		38	20	18		9	4	5	1		1	
Lenawee	390	208	181	1	329	173	155	1	57	34	23	• 4	1	8	
Livingston	182	105	77		162	91	71		19	13	6	1	1	! !	<b> </b>
Mackinac	16	7	8	1	11	5	5	1	5	2	3				
Macomb	269	146	123		225	118	107		44	28	16			<b></b>	ļ
Manistee	101	56	45		75	40	35		26	16	10				
Manitou	10	4	6	 					10	4	6				ļ
Marquette	232	139	93	<b> </b>	177	98	79		49	36	13	6	5	1	
Mason	34	16	17	1	30	13	16	1	3	2	3	1	1		
Mecosta	60	30	30		49	26	23		10	4	6	1		1	<b></b> .
Menominec	14	10	4		12	8	4		2	2					
Midland	58	32	26		45	24	21		13	8	5				ļ
Missaukce	9	7	2		6	5	1		8	2	1				ļ
Monroe	265	133	132		227	116	111		<b>3</b> 5	15	20	3	2	1	ļ
Montcalm	144	63	81		184	57	77		9	6	3	1		1	<b> </b>
Muskegon	115	62	52	1	91	48	42	1	19	11	8	• 5	8	2	<b> </b>
Newaygo	64	27	37		57	22	85		6	4	2	1	1		
Oakland	824	161	162	1	267	128	138	1	4.9	29	20	8	4	4	
Oceana	92	45	46	1	77	34	42	1	12	10	2	3	1	2	<b></b>
Ogemawd						•••••									<b> </b>
Ontonagon	18	7	11		12	2	10		6	5	1				
Osceola	64	44	20		50	34	16		12	9	3	2	1	1	
Otsego	6	1	5		8	1	2		3		3				
Ottawa	274	162	111	1	201	119	84	1	67	41	26	8	2	1	
Presque L.	19	10	9		11	7	4		7	2	5	1	1		

a No returns to this Department.
b 5 males "America."
c 1 female "America."
County Clerk says no returns from supervisors.

TABLE XIII.—CONTINUED.—Deaths by Counties, Nativity, and Sex.

	ALL 1	NATIVI	TIES, 1	877.		NATI	VB.		Fo	rrign.			Unku	OWN.	
COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Unknown.
Roscommon.	4		4		4		4					•••••			
Saginaw	535	278	258	4	411	215	192	4	114	57	57	10	6	4	<u> </u>
Sanilac	186	78	108		118	52	66		68	26	42				<b> </b> .
Schooleraft.	5	8	2		5	8	2								<b> </b>
Shiawassee	158	84	78	1	189	74	64	1	17	10	7	2		2	<b> </b> -
St. Olair	324	154	157	8	223	108	118	2	89	49	40	a 12	7	4	,
St. Joseph	199	102	97		175	85	90		22	15	7	2	2	•	ļ
Tuscola	164	76	88		130	56	74		34	20	14			•••••	<b></b> .
Van Buren	218	102	116		199	90	109		17	10	7	2	2		<b></b>
Washtenaw.	362	186	176		266	189	127		67	<b>3</b> 6	81	29	11	18	ļ
Wayne	2,170	1,197	964	9	1,478	799	673	6	584	838	246	108	60	45	1
Wexford	25	15	10		22	13	9		2	3	1	1	1		<b></b>

a 1 male and 1 female "America."

## CAUSES OF DEATH.

In Table XIV. the number and proportion of deaths from each class of causes, for each of the years 1873-1877, are shown. In 1877, the number of deaths from causes included in Class I.—Zymotic diseases—was 25.69 per cent. of the deaths from all causes; this is a little larger than for 1875 or 1876, but smaller than for 1872, 1873, or 1874. The proportion of deaths from Class II.—Constitutional diseases—was 19.00 per cent.,—the largest for any of the years 1872-1877; the proportion from Class III. was 27.14 per cent.—the smallest for any of the years 1872-1877; the proportion from Class IV. was 11.82 per cent., the largest for any of the years 1872-1877; and the proportion from Class V. was 5.06 per cent.

	·		

Diagram No. 4. and from each blass of bauses. 1.500 194.3 1,400 1,300 1200 1.100 1,000 900 800 700 600 500 400 300

Scale = 239 to the inch

Designed by Honey & Baker

TABLE XIV.—Number of Deaths Returned as having occurred in Michigan from All Causes, and from each Class of Causes, and the Per Cent. of Deaths from each Class of Causes to Deaths from All Causes, for each of the Years 1873 to 1877, inclusive; also the Average Number and Per Cent. for the eight Years 1869–1876.

CAUSES OF DEATH, CLASSES.	187	78.	18	74.	18	78.	183	76.	187	77.	FOR E	BAGE LIGHT , END- WITH 76.
CLASSES.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.
All Causes	14,258	100.00	12,500	100.00	11,990	100.00	12,576	100.00	12,919	100.00	11,792	100.00
I.—Zymotic	4,027	28.24	8,260	26.08	2,798	23.34	8,094	24,60	3,319	25.69	3,270	27.78
II.—Constitutional.	2,207	15.48	2,117	16,93	2,190	18,27	2,848	18.67	2,454	19.00	2,083	17.68
IIL—Local Diseases	4,565	82,02	3,697	29,58	3,565	29.73	3,647	29.00	3,506	27.14	3,361	28,50
IV.—Developmental	1,162	8.15	1,256	10.05	1,853	11,28	1,458	11.59	1,527	11.82	1,119	9.49
VViolent Deaths. Unknown and Un-	685	4.80	656		646				654	5.06		5,06
classified	1,612	11.31	1,514	12.11	1,438	11.99	1,282	10.19	1,459	11.29	1,862	11.55

Exhibit 7 shows, by months, the number of deaths from each class of causes in 1877, and enables the reader to study the influence of season upon the number of deaths from the different classes of causes.

EXHIBIT 7.—By Months, the Number of Deaths in Michigan from All Causes and from each Class of Causes for the year 1877.

CAUSES OF DEATH.	Vere						e e e e	8 OF D	RATH,	1877.				
CLASSES.	1877.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Bept.	Oct.	Nov.	Dec.	Tak.
All Causes	12,919	766	843	990	978	976	875	1,040	1,689	1,400	1,221	1,060	1,155	51
I.—Zymotic	3,319	149	150	175	162	200	177	800	563	515	352	272	269	
IL-Constitutional.	2,454	154	181	202	238	231	197	186	238	206	195	192	225	s   s
III.—Local Diseases	3,506	244	277	297	303	282	235	240	859	345	824	279	807	14
IV.—Developmental	1,527	90	101	155	98	125	107	124	158	117	140	187	167	1 8
VViolent Deaths	654	32	30	46	52	45	67	66	78	62	51	63	62	
Unknown and Un- classified	1,459	97	101	115	125	93	92	124	171	153	129	117	125	lu

DEATHS, 1877, GROUPED BY PART OF BODY DISKASED.

Exhibit 8 groups together certain causes of death in each of the years 1872-1877. In 1872-1876, there were five groups, and in 1877 there were six groups, the liver diseases being added in 1877. Inung diseases head the list in each year; and

bowel discuses are second, followed by brain discases, except for the year 1873, when these last two discases exchange positions in the order. In 1877, the six groups composed 56.08 per cent. of the deaths from all causes; and excluding the sixth group, added for 1877, the five groups caused 55.10 per cent. of all the deaths in 1877,—more than any other year shown EXHIBIT 8.—Order of Succession of Five Groups of Causes of Death in Michigan for each of the Years 1872 to 1876, in the exhibit.

	Num- ber.	12,919	2,534	1,702	1,693	731	480	198	7 945
1877.	Per Ct. to All Causes.	100.00	30.00	13.17	12.33	6.06	8.58	88.	8
-	DISEASES	12,576 All Caus.	2,753 Lungs	1,633 Bowels	1,549 Brain	541 Throat	403 Heart	Liver	N
	Num- ber.	12,578	2,753	1,633	1,549	241	<b>\$</b>		ı
1876.	Per Ct. to All Causes.	100.00	21.83	12.08	12.31	6.30	8, 22		2
	DISEASES	11,990 A11 Caus.	2,720 Lungs	,521 Bowels	,338 Brain	406 Throat	391 Heart		6 376 6 Groune
	Num- ber.	11,990	2,720	1,521	1,338	408	88		ł
1875.	Per Ct. to All Causes.	100.00	22.69	12.60	11.16	8.39	3.28		2
	DISEASES	12,500 AII Caus.	2,605 Lungs	1,907 Bowels .	1,450 Brain	1.20 Throat	395 Heart		8 777 & Grouns
	Num- ber.	12,500	2,605	1,907	1,450	4.20	393		, TT, 8
1874.	Per Ct. to All Causes.	100.00	18.03	15.26	11.60	3.36	8.16		3
	DISEASES	14,258 All Caus.	2,511 Lungs	2,336 Bowels .	2,121 Brain	434 Heart	402 Throat		7 801 6 Groups
	Num- bor.	14,258	2,511	2,836	2,121	134	<b>4</b> 03		7 801
1873.	Per Ct. to All Causes.	100.00	. 17.61	16.38	14.80	3.04	2.83		72.19
	DISEASES	All Caus.	Lungs	Brain	Bowels.	Throat	Heart		6 Grouns
	Num. ber.	13,871	2,441	2,278	1,779	88	873		7 989
1872.	Per Ct. to All Causes.	100.00	18.26	17.04	13.23	2.9-3	2.79		78
	DISKASES Ct. to OF Causes.	All Caus.	Lungs	Bowels	Brain	Throat	6 Heart		1-5 G Grouns
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Diagram No. 5.

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	Northern Central.	Bay and Eastern.	Central.	South- western.	Southern Central.	South- eastern.
<u>-</u>		Eastern.	Central.	western.	Central.	castern.
<u></u>						
Alcona Rent	Clare	Вау	Barry	Allegan	Branch	Macomb.
Alpena Lake	Gladwin	Haron	Clinton	Berrien	Calhoun	Monroe.
Iosco Mason	IsabellaP	Lapeer	Eaton	Cass	Hillsdale	Oakland.
Ogemawb Muskegor	Muskegon.   Mecosta	Saginaw	Genesee	Van Buren.	Jackson	Wayne.
Presque Isle Newaygo	.m Midland	Sanilac	Gratiot		Kalamazoo	
Oceana	Roscommon.9		Ingbam		Lenawee	
Oscools	•	Tuscola	Ionia		St. Joseph	
Ottawa	:		Livingston		Washtenaw	
			Montcalm			
			Shiawassee			
		•				
				_		
3 <b>o</b>		Muskegou Newaygo.m Occana Oscools	Muskegon. Newaygo.m Midland Oceans Roscommon.q Oscools	Newaygo.m Midland Sanilac Oceana Roscommon., St. Clairr Ostcols Ottawa	Newaygo.m Midland Saniac Gratiot Oceana Roscommon.q St. Clairr Ingham Ottawa Tracola Injugaton Montcalme	Newaygo.m Midland Sanilac Gratiot Van Buren Occana Roscommon, 9 St. Clair Ingham Oscoola Tracola Livingston Montcalm

Table XV. shows by geographical divisions, the number and per cent. of deaths from all causes, and the per cent. of deaths from each class of causes to deaths from all causes in 1877. The largest proportion of deaths from zymotic diseases appears for the north-western division; the largest proportion from constitutional diseases is shown for the northern-central division; the largest proportion from local diseases is shown for the central division; the largest proportion shown from developmental diseases is shown for the north-western division; and the largest proportion from violent deaths is shown for the northern-central division.

TABLE XV.—Exhibiting for the State and each of Eleven Geographical Divisions of the State, the Number of Deaths Returned, and the Per Cent. of Deaths for each Division to Total Deaths for the State during the Year 1877; also, the Per Cent. of Deaths from each Class of Causes to Deaths from All Causes.

STATE AND	Popula- tion in		THS RTED, 17.	Per Cent. of Deaths		USES TO	DEATHS		ACH CLAS L CAUSE BIONS.	
GEOGRAPHICAL DIVISIONS.	1874 Represented by Deaths in 1877.	Num- ber.	Per Ct. of Total.	in 1877 to Popu- lation	Class I. Zymotic Discasos.	Class II. Consti- tutional Diseases.	Cl'ss III. Local Discases.	Cl'as IV. Develop- mental Discases.	Class V. Violent Deaths.	Unk. and Un- classi- fied.
STATE	1,821,160	12,919	100.00	.08	25.69	19.00	27.14	11.82	5.06	11.29
Upper-Peninsular.	59,398	685	5.30	1.15	26.42	12.26	16.79	14.16	8,03	22 34
North-western	25,486	292	2.26	1.15	30,14	16.10	20.21	16,10	6.16	13.80
Northern	9,549	168	1,30	1,76	23.21	13.10	17.26	12,50	5.95	27.98
North-eastern	12,211	93	.72	.76	18.28	23.51	20.48	9.68	9.68	20.43
Western	140,197	1,296	10.03	.92	27.16	19.83	25,85	12.27	6.17	8.72
Northern-Central	21,492	220	1.70	1.02	20.00	21.82	24.09	11.82	10.91	11.36
Bay and Eastern	181,527	1,812	14.03	1.00	24,61	17.99	24.56	14.07	5.45	13.30
Central	240,048	1,902	14.72	.79	24.29	19.98	81.60	10.78	4.26	9.15
South-western	115,969	891	6.90	.77	24.02	19.64	29,52	10.10	5.50	11.22
Southern-Central	278,932	2,532	19.60	.92	27.69	20.54	30,49	10.43	4.38	6.48
South-eastern	241,401	3,028	28.44	1.25	25.59	18.99	26,92	11.72	8,90	12,88

ARRANGEMENT.	
-Nosological	
DEATH.	
AUSES OF D	
9	
TABLE XVI.	

155 23 137 Exhibiting the Number of Deaths in Michigan and in each County of the State during the Year 1877, from Specifie Causes, Statistically Classified.—(Still-Births Included.) : Gr. Traverse. i 54 268 247 5 102 8 23 \* Genesee. 83 53 215 10 \$ 3 205 Eston. 20 13 Delta, 183 65 į Ciluton. 138 : Clare. Ξ 1 i Chippewa : 28 = COUNTIES,-1877. 65 50 143 23 3 166 Casa. 330 110 53 Calhoun. 18 2 7 263 281 258 221 35 8 Berrien. 25 \*\*\*\* Benzie, 37 24 250 78 287 Bay 216 48 30 Barry. 50 25 Antrim. 딿 -VIbens. 249 34 224 53 26 : \*\*\*\* 1,756 = : ... Alcona 3,285 2,916 1,392 3,319 1,527 2,454 12 1,527 65 969 STATE 2. Tubercular Diseases..... All Causes ..... Specified Causes...... Causes not Specified...... I.-1. Miasmatic Diseases ....... I.-Zymotic Diseases..... III.—Local Diseases..... IV.—Developmental Diseases...... Unclassified ..... 2. Enthetic Diseases..... II.-1. Diathetic Diseases...... V.-Violont Deaths ..... 8. Dietic Diseases..... 4. Parasitic Discases..... CAUSES OF DEATH,-1877. II.-Constitutional Diseases ......

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1,470	451	786	519	165	13	10	67	865	173	489	į	325	****	13	67	i	600	8,320	3,235	102	8	101	593	0	164
III1. Diseases of Nervous System	2. Diseases of Organs of Circulation	3. Discases of Respiratory Organs	4. Diseases of Digestive Organs	5. Diseases of Urinary Organs	6. Diseases of Generative Organs	7. Diseases of Organs of Locomotion	8. Diseases of Integumentary System.	IV1. Developmental Diseases of Children	2. Developmental Diseases of Women.	3.—Developmental Dis. of Old People	4.—Diseases of Nutrition	V1. Accident or Negligence	2. Battlo	8. Homicide	4. Suicido	5. Execution	6. Violent Deaths	OLASS I.—ZYMOTIG	I.—ORDER 1. Miasmatic	1. Small-pox	2. Measles	3. Scarlatina	4. Diphtheria	6. Quinsy	& Group

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OAUSES OF DEATH,—1877.	.arat8	Alcona	Allegan.	Alpena.	Antrim.	Baraga.	Barry.	Bay.	Benzle.	Branch.	Calhoun.	Саяз.	Charlevolx,	Среродскаг	Chippewa.	Clare.	Cilnton.	Delta.	Enton.	Emmot.	- Сепевее.	Gladwin.	Gr. Traverse.	Grattot.
7. Whooping-cough	131	1	CN	1	İ	1		60	01	04		1 19	-	_										67
Typhoid Fever	420	1	15	1	00	1	9	10	-	13	6	16 1	10	- 1	1	04	=			1	90	0.		9
8. Typhus Fever	65	1	1	1	-	1	+	-	1		-	1	1	- 1	1	1				1	1	i	-1	
Typho-malarial fever	1	1	1	1	1	- 1	1	1	- 1		- !	1	1		-	1	į		1	-	1		1	
9. Erysipelas	7.4	-	-		i	1	;	60	-	-	61	-	9	1	1	1			1	1	01	1	- !	-
10. Puerperal Fever	83	1	1	1	i	1	1	1	-	-		-	01	04	1	1	i	_	1	1	1	1	i	-
11. Carbuncle	1	1	1	1	1	1	1	1	+	-	-!	;	1		-	1	- 1	1	-	i.	- 1	-	1	1
12. Influenza	9	1	1	1	1	1	1	+	1	1	- 1	-	1	1		i		1	1	1	1		1	
13. Dysentery	221	1	01	1	04	1	*	69	1	*	9	60	Gi.	- 1	-			1 2		19	=			•
14. Diarrhea	103	1	1	C+	1	1	64	90	-	1	-	61		04	1	- [		_	- 1	1	_	1	- 1	
15. Oholera Infantum	370	-	1	1	-	-	12	15	1	11	60	24	9		1	1	_	10	-	1	80	1		60
Cholera Morbus	56	1	1	1	İ	1	1	н	1	1	- 1	1	1	;	1	1	1	1	1	1	i	ŀ	1	
Cholera	15	-	i	1	1	-	÷	1	+	;		-	1	-	1	1	1	1	1		1	1	1	
17. Ague	137	1	6	1	-	1	1	10	1	9	-	-	01	1	1	1	-	1	_	1	_	1	1	•
18. Remittent Fever	103	-	7	-	1	1	H	01	1	04	-	CI	-	-		1	1	1	10	1	1	1		01
19, Rheumatism	72	1	C4	1	1	1	-	+	1	04	Q1	*	+	1	1	1	1	1	-	1	1	1	1	_
IORDER 2. Enthetic	a	1	-	1	1	T	-	-	- !	-	-	1	_!	- 1	1	-	1	- !	-	_	- 1			
1. Syphilis	80	1	1	1	i	i	1	-	1		1	1	1	1	1	1	1	1		1	1	1	1	i
2 Stricture of Urethra	-	1	1	İ	1	1	Ť	+	+	- 1	-	+	1	:	1	1	i	1	1	1	1	i	1	1
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4. Glanders	****	1	1	1		:		1	-			1	:	1	i	1	1	1	İ	Ť	1
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1. Privation	-	1	-	1		1	1	- 1				1	1	1	1	1	;	1	i	i	i
Purpura	01	1	7	-		1	1	Q1	1			1	1	1	1	1	1	;	1	İ	1
2. Rachitls	1	1	1	-		1	1	1	- 5			1	-	1	i	1	1	1	1	Ť	1
Senry	-	1	1	;		1	1	1.4	1	-		1	1	1	1	1	1	-1	İ	i	1
8 Delirium Tremens (Alcoholism)	1	1	÷	1		1	-			_		1	1	1	1	1	5	:	i	1	1
4. Intemperance	6	1	+	1	:	1	1	•		1		:		1	1	1	1		Ī	i	1
IORDER 4. Parasitic	13	-	1/4			1	1	-	64	;	1	1		- 1	i	1	- 4	- 1	1	1	1
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3. Disease of Scalp	-	1	- 3			;	-	;	-	1	1	1	1	+	1	1	;	. 1	Ì	1	1
CLASS II.—CONSTITUTIONAL	2,454	67	00	-	4	01	10	9 91	7	89	10	01	-	50	7	99	~	39	Q4	=======================================	PG
IIORDER 1. Diathetic	809	15	63	60	11	18	7	8	1	- 12	9	1	-	6	61	21	1	15	1	10	0
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Anæmia	150	1		- 1	61	=======================================	T	61		200	1	1	1	60	-	63	1	*	1	-	-
Z. Dropsy	225	2	7	01	94	10	61	60	100	10	-	1	3	63	1	10	1	9	1	00	<b>~</b>
3. Cancer	265	9	7	-	iG.	-	Ç1	3	-	50	_	1	1	93	1	13		0.3	1	1	ю
4. Noma (Canber)	30	80	01	= 1	1	-	1	1		-	-	i	**	- 1	1	-	- 1	Q4	1	-	-
6. Mortification	18	1	-	1	-	1	1	1	1	-	1	1	1	1.	E	01	1	1	Ī	i	;
IIORDER 2. Tubercular	1 99L	65	6	-	30	91	69	38	4 56	900	*	01	- 1	26	4	20	-	15	01	9	83
1. Scrofula	34		,		1	1	н	-	04	P4	- 1	-	1	01	- 1	-	1	1	.04	1	-
2. Consumption of Bowels	23	-	1	1	1	1	1	1	Ç4	1	1	1	1	- 1	1	-	:	11	i	1	;
2. Phthisis (Con. of Lungs)	1,681	650	10	1	66	77	80	88	0	53 20	4	01	1	23	10	34	-	23		9	ខ

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TABLE XV
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											Ö	NUC	IES.	COUNTIES.—1877.	7.									
CAUSES OF DEATH.—1877.	STATE,	Alcona.	Allegan.	Alpena.	Antrim	Baraga.	Barry.	Bay.	Benzie.	Berrien	Branch.	Calhoun,	Charlevolx.	Спанскога	Chippewa.	Clare.	Clinton	Delta.	Estou	Emmet.	. Сепевсе,	Gladwin,	G. Traverse.	Joliand
4. Hydrocephalus	-			İ	1	1	1	1	;	1	1	1	1	1	1				1					
6. Marasmus	11	1		Ī	***	-;-	Ť	$^{+}$	+	i	- 0	1	1	1	1	1	1	1	1	1	1	:	1	
CLASS III LOCAL DISEASES	3,506	60	70	1+	21	**	7.4	6	30	99	16	81	13	00	04	00	*	11 99	12 68		5 102		1 10	8
IIIORDER 1. Nervous System	1,470	04	18	4	7		88	27	-	88	68	30	53	04		-	01	16	8 80		01	38	04	=
1 Cephalitis	293	-	99	01	1		10	90	1	×	=	91	*	-		-	-	01	_	1	-	10	1	
3. Apoplexy	88	1	1	F	1	-	1	60	1	00	01	7	1	-	:	!	1	1	-	P0	-	-	1	
3. Paralysis	249	1	-	1	1		1-	100	;	*		10	6	1	1	!		6		_	-		- 1	
4. Insanity	91	1	1	i	:	-	+	+	1	-	- 14	:	+	1	1		1	1		64		1	1	
6. Ohorea	1	1	1	1	1	-	1	+	1	1		:	*		1	1	1	1	1	-	1	1	-1	
6. Epilepsy	35	į	01	i	1		-	-	;	01	01	- 1	-	1	1	1	1	-	1	1	_	:	1	
7. Tetanus	1.	1	1	1	1		1	1	+	1		1	:	1	1	!	1	1	-	-	:		1	<u>:</u>
5. Convulsions	298	-	03	1	*		7	-	*:	9	**	-	- 01	-	1	1	-	*	-	9		9	_	
Brain Diseases	203	1	*	-	- 1		*	03	-	1	00	4	-	:	1	1		60	-	**	_	1	1	
" Dropsy of Brain	53	-	1	-	1	*	*	-	1	01		;	+	1	1	1			_		1	1	1	
10. Spinal Ferer	73	-	1	i	1	•	200	-	1	01	-	01	10	-	4	1	_	01	1		-	01	-	
11. Spotted Fover	*	- 1	1	1	1		Ť	+	1	:	,	1	÷	1	+	1	1	1	1		1	:	1	i
12. Meningitis	11	1	1	i	1	•	1	i	+	1		-	+	1	-	-	-		-	1	1	1	-	
18. Meningitis, Cerebro-Spinal	6	1	i	1	1		1	i	÷	1	01	1	÷	1	1	1	1	1	_	_	-	!		
14. Meningitis, Spinal	66	i	1	-	!		04	Ť	+	1	-	E	+	1	1	1		-		-	1	1	i	
11 Vanualaia													-	_							_		1	

16. Spine Disease		-	1	Ī	Ī	10	8	7	7		:	1	1		1	7	F		7
17. Spine, Indam. of	CI	1	1	1	1			:	-	4	1	1		1	1		-1	1	i
18. Frightoned	-	1	-	1	1		1	1	-1	:	1	1	1	1	:	·	.1	1	1
IIIORDER 2. Organs of Circulation	19	10	-	1	-	-	10	- 12	6	21	10	i	-	60	61	61	13	- 1	
1. Pericarditis	90	-	1	1	1	01	01	-	64	*	01	1	1	-	94	:	1	1	i
2. Aneurism	1	11	1	1	1		1	1	1	:	- 1	1	1	1		1	;	!	1
A. Heart Discase	395	_	-	1	-	10	63	=	-	00	00	1	-	*	9	01	21	1	•
4. Emboli	1	1	1	1	1		-	1	;	1	:	į	1	1	1	•	1	-	
IIIORDER & Respiratory Organs	786	8	-	69	64	80	00	8	19	36	10	-	-1	7	4 17	*	27	60	-
1. Epistaxis	1	;	1	1	1			•	- 1	- 1	;		1	1		1	1	1	1
2. Laryngitis	7	1	1	1	1		!	G.	1	1	;	1	1	1	1		- 1	-	18
8. Bronchitis	45	11	1	1	-	÷	-	1	;	1	:	1	1	1	1		60	!	1
4. Pleurisy	15	:	1	1	1		-	-	-	94	1	1	1	1	-	•	-	1	i
5. Pneumonia	238	22	1	Ç.	-	17	-	3 12	15	00	6		1	21	4 12		50		64
6. Asthma	52	;	i	!	1	*	1	1	-	-	1	-	i	1	1		1		
7. Lung Discaso	149	9	1	-	1	-		7	64	10	~	i	1	64	1		60	2	:
8 Catarrh	•	_	1	I	-		+	1	1	1	:	1	1	i		:	1	1	
III,-ORDER 4. Digestire Organs	649	13	-	4	7	13	00	04	8	15	00	i	•	6	21	:	13	-	2
J. Gastritis	10	- 1	1	7	i	-	-		04	1	-	1	1	1	01		;	ı.	-
2, Entoritis	231	•	1	H	1	17	9	-	10	60	80	į		1	-	1	•	1	61
8. Peritonitis	80	4	i	1	1	•	!		1	1	:	İ	1	1	3.1	Ì	1	!	1
4. Asoltos	+	:	1	i	i	•	-	-	1	1	1	į	•	1		:	t	_	1
5. Ulceration of Intestines	00	1	1	1	1		1		i	:	1	i	1	1		÷	п	1	1
6. Hernia	19	-	1	-	1				-	1	1	ľ	1	-		ì	1	-	-
7. Obstruction of Bowels	100	1	1	1	1	. 1			1	1		1	1	1	-	Ţ	1	i	1
& Intustaception	01	1	I	Ī	1				1	;	i	1	1	1		Ţ	1	1	1
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TABLE XVI.—Continued.—Causes of Death, Classified.

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CAUSES OF DEATH,-1877.	.ETATE	Alcona.	Allegan.	VIDens.	Antrim.	Baraga.	Barry.	Benzle.	Berrlen.	Branch.	Calhoun.	Cass.	Charlevolx.	Cheboygan.	Chippewa.	Clare.	Cilnton,	Delta.	Eston.	Emmet.	Оспевее.	Gladwin.	Gr. Traverse.
9. Stricture of Intestines	•	1	i	i	1	1	1							i					1			i	1
10. Fistula	1	1	Ť	i	1	-+	1	- 1	1	_	1	- 1	-	1	1	1	1		1	-		i	1
11. Stomach Diseases	11	1		Ť	÷	1	-	1		- 01	-	_		- 1	- 1	- 1	-	1	-	1	-	1	-
12. Pancreas Disease	-	1	i	1	1	+	1	+	4	-	1	1	i	-1	1	- 1	1	T	1	1	1	1	1
13, Hopatitis	9	1	1	i	1	1	1	1	1	1	1	1	- !	j	1	- 1	-	1	1	1	1	1	1
14. Jaundice	55	-	-	i	t	1	1	-1	1	1000		_	1	1	1	1	-	1	-	1	1	i	:
15. Liver Diseases	86	1	01	1	04	-	04	-	_	-	***	_	1	I	1	-	60	1	-	1	10	1	-
16. Spleen Diseases	01	1	Ť	Ť	i	T	-	1	1	1	1	1	-	1		-	1	-	1	1	1	1	1
17. Bowel Diseases, etc	88	1	-	Ť	+	1	-	-		_	- 61	_	1	-			1	1	-	-	64	1	1
18. Mouth Disease.	-	1	Ť	İ	Ť	t	+	+	1	1	1	1	1	1	i	1	1	-	1	i	1	Ī	1
IIIOrder & Urinary Organs	165	- 1	*	-	i	-	.04	_		_	9	Q4	•	_1		- 1	60	1	60	-	-	- 1	C.
1. Nophritis	10	1	Ť	i	i	1	-	+	1	1	1	1	1	1	1	1	T	T	1	T	1	1	-
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8. Bright's Disease of Kidneys	25	1	-	=	÷	+	+	+	1	Ξ.	64	i	1	1	1	1	1	1	04	1	-	Ť	1
4. Diabetes	82	-	1	i	i	1	-	-	1	_	_	_		1	1	1	1	1	1	н	*	1	1
& Calculus (Gravel, etc.)	11	1	1	i	Ť	+	+	÷	1	1	1	1	1	1	1	1	64	1	1	1	-	1	1
6. Cystitis	13	1	Ì	i	i	+	+	÷	1	_	1	i	-	1	1	1	1	1	1	1	1	1	1
7. Kidney Diseases	19	1	00	Ť	i	Ť	+	+		-	91	-	1	1	1	1	-	1	-	-	-	T	-
III.—Order 6. Generative Organs	13				7	-		-	_	_	_					-0				ī	•		

2. Diseases of Uterus.  2. Diseases of Uterus.  1. Arthritis.  2. Joint Diseases.  2. Joint Diseases.  3. Skin Diseases.  3. Skin Diseases.  3. Skin Diseases.  4. Uter.  5. Skin Diseases.  5. Skin Diseases.  6. Skin Diseases.  7. Skin Diseases.  8. Skin Diseases.  9. Skin Diseases.  1. Skill-born.  1. Skill-born.  2. Infantile.  2. Infantile.  3. Infantile.  4. Special contraction in the skin in the	0 0 0 0	7 822		7 7     8 7 9	7 7 8 7 8	1	1			111111111					-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CAUSES OF DEAT
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DISEASES. 1,307 1 04 Children. 8955 1 724 1	0 0 0 0	8 2 2	353"	1 3 7 9	8 7 8	8 2 2			117	*	1 8	ii					
Distants 1,507 1 0f Children 8955 1 724 1	0 0 0 0	8 2 2	2 2 2 4	1 2 2 2	8 7 8	8 2 2	0 0 0		1 7		- 8	İ		61 ,		, p. 60 dt	
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of Children 8956 1	00 00 1 10 00 00 1 10	2 2	2 2 1	7 9	7 2	2 2	89 89	e4 e4				60	17			89 Q4	
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Premature Rivih	6	- 1		1	-	1	+	1	-	1	•	1	-	1	1		-,
Trompara		1	1	-		+	+	1	1	-	1	-	+	1	-		-
2. Oyanosis	-	-	1	i	1	1	-	1	1	i	i	1	i	1	1	!	
4. Spina Bifida		1	1	i	+	1	+	1	1	1	i	1	$^{+}$	+	1		881
6. Other Malformations	-	1	1	1	1	+	+	1	1	Ī	1	1	$\dagger$	+	1		
C. Teething	1	1	64	1	-	1	-	1	1	1	-	1	+	-	-	-	<b>-</b> -
7. Injury at Birth	-	+	1	i	+	+	+	1	J	1	1	Ť	+	+	1	<u>.</u>	-
IVORDER 2. Dev. Diseases of Women 173 6	1 1	60	61	H	60	•	01	- 61	-	-	80	01	10	-		-	
Dysmenorrhes	-	1	1	i	1	1		1	1	1	i	+	+	+	1	1	
"( Turn of Life 3	1	1	1	i	1	1	-	1	1	1	1	1	:	1	1		
Childbirth 6	1 1	89	2	-	04	•	-	-	-	-	60	64	10	-	1		
& Abortion 6	1	1	1	1	-	1	1	-	1	1	t	+	1	1	1		
Uterine Hemorrhage		-	-		-	-	4				-	-	-	-	-		167

## VITAL STATISTICS OF MICHIGAN, 1877.

										•	200	KTIE	COUNTIES,-1877.	Ë.										
CAUSES OF DEATH,—1877.	ETATA,	Alcona.	Allegan.	Alpena.	Antrim.	Baraga.	Bay.	Benzle.	Berrien.	Branch.	Calboun.	Cass.	Charlevolx.	Срероудар.	Chippewa.	Clare.	Cilnton.	Delta.	Eaton.	Emmet.	Genesee.	Gladwin.	Gr. Traverse.	Gratiot
IVORDER & Dev. Diseases of Old People	688	-	13		1	1	90	90	1	62	6	138	-	-		-		1	10		10		*	-
1. Old Age	689	1	2	+	1	1	90	90	1		6	133	*	-	1	-	61	-	10		10		*	-
IVORDER 4. Diseases of Nutrition	11	11	11		+	ii		+	-1-1		++	1.1	!	1 1			-11	11	-		11	No. 14		
CLASS V.—VIOLENT DEATHS	651	-	13	9	10		- 00	56	01	- 53	6	60				-		-	7		60	C.	01	
VORDER 1. Accident or Negligence	352	-	6		60	1		15				9	61		01	O4			10		9		01	
1. Fractures and Contusions	15	1	=	÷	1	1	- :	+	-	-	-	69	_	!	-1		-		04		-	111	1	
2. Wounds	10	1	i	-	1	1	- !	+	1	-	- 1	1	1	- !	1	1		1	1		1	•	1	- !
2. Burns and Scalds	9	1	63		04	1	-	9	1	01	04	1	1	1	-	i		i					1	
4, Poison	250	1	1	04	4	I		1	:	61	,	-	-	1	_	1	_	1	1		:	1	1	
5. Drowning	103	1	64	64	+	1	-	*	-	10		69	- 1		01	1	ÇI.	-	-		1		1	
6. Suffocation	H	ī	-	÷	t	1	1	+	1	1	+	1	+	i	1	1	_	1	-	1		1	1	
7. Otherwise	89	1	ea	01	-	i		01	1	-	1	-	-	-	1	-	-	1	-		*	1	-	
VORDER 2. In Battle		1	i	-	+	i	+	+	+	1	1	1	1	1	1.	1		1	1			1	1	
VOEDER & Homicide	13	1	-	1	1	1	+	t	+	1	-	-	1		1	1		1	1		•	- 1	1	
1. Kurder	0	1	-	i	1	i	÷	t	+	1	!	-	1	1	1	1	-	ì	1				1	i
VOxbar & Suicide	19	-	1	i	Ť	1	•	04	-	-	64	_	+	- !	1		-	1	•	1	-	4	1	•
							_	_	_	_	_	_	_	_	_							1	1	1

2. Polson	16	1	1	1	1	1	_	1	1	1	1		1			Ī		1	64	1	•	i	1	į
S. Drowning	10	!	1	į	1	1	1	1	1	01	:		1	1		1	1	1	- 1			1		į
4. Eanging	0		1	1	1	_		1	1	1	•		1	1	1	1	-	1	1	1		i	i	į
6. Otherwise and not Specified	36	-	1	1	1		89	1	-	1	-		1	1	1	-		1	01	1		Ť	į	i
VOEDER 5. Execution.	1	1	- 1	1	1			1	_	-1	- 1	- 4	- 1	1	1	1	1	i	İ	İ	i	i	i	- 1
1. Hanging	i	-	7	1	1	1		1	1	1	1	:	i	1	1	Ì	T	İ	İ	İ	İ	i	i	1
VORDER 6. Violent Deaths not Included	55	- 1	82				04	6	1 2	•	20	01		-	- 1	64	-		10	- 1	-	64	- 1	1
Unclassified	67		1	1	1		-	01	_	1	-			T	1	1	80	İ	i	-		i	1	1
1. Hemorrhage	30	•	1	i	-		-	1		1	;	:		1	1	i	-	1	i	i	i	İ	+	1
2. Insammation	8	•	1	- 1	-	1	-	-	1	1	-	1		-	1	1	01	. 1	İ	İ	1		1	1
8. Otherwise	80			1	1	1	1	1	1	1	1	1		1	1	1	1	i	i	İ			-	1
Causes not Specified	1,392	H	- 53	9	-	8 18	18 37	-	**	18	53	83	7	=	9	63	21	00	10	23	5	H	01	80

TABLE XVI.—Continued.—Causes of Death, Classified.

									j		8	COUNTIES,-1877	188,	187	_					İ					
CAUSES OF DEATH,—1877.	Hillsdale.	Houghton.	.потиН	Ingham.	.elnoI	losco.	Jeabella.	Isle Boyal.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta,	Menominee.
All Causes	287	253	87	181	=	88		1	366	317	18	633	29	88	553	48	390	182	16 26	101		10 232	65		8 1
Specified Causes	266	196	73	167	196	135	1 8	İ	340	301	18	505	1 3	1 8	15	40	373	173	13	8 220	1 68	101	1	30 54	1 -
Causes not Specified	õi	57	11	7	17	60	0	1	3	16	64	=	64	1	18	00	11	6	- -	10	21	. 6		+	9
CLASSES.							i T			1	1		1	1	1-	_	_	_	1		_	_	1		_
I.—Zymotic Discases	88	73	16	9	4	9	=	1	119	99	04	219	19	C+	20	9	=	9	-	2 3	33	_	99	0	7
II.—Constitutional Discases	57	36	15	42	#	7	13	1	65	20	60	131	-	10	36	9	74	39	9	63	=	10	54	10	80
IIILocal Discases	8	36	20	5	62	1	93	1	101	116	9	6	64	600	67	77	95	102	-	75	18	-	1 12	61	- 9
IVDevelopmental Discases	61	32	13	83	35	60	00	1	9	36	04	89	=	Q4	98	*	46	16	20	35 1	16		34	-	61
VViolent Deaths	17	18	60	8	o.	-	01	1	8	61	60	30	10	60	24	69	91	00	-	13	80	65	82	-	9
Unclassified	7	-	64	64	1	-	;	i	1	-	T	54	1	-	1	1	1	1	-1	-	-	F	G1	-	1
ORDERS.									Т	-			-	-	-	-	-	_	_	_	_				-
I1. Minsmatic Discases	88	72	16	40	46	9	=	1	118	8	C4	218	11	64	69	9	11	330	9	89	35	20	99	6	13
2. Enthetic Diseases	1	1	1	1	1	i	i	i	1	-	Ŧ	+	:	-1	-	+	1	1	-	- 1	1	1	1	1	4
& Dietic Diseases	1	-	1		•	1	i	1	1	1	1	-	64	1	+	1	1	1	-	1	1	1	1	-	4
4. Parasitic Diseased	-	1	1	1	1	1	Ť	1	r	1	÷	t	1	÷	+	1	1	-	1	1	1	_	1		
II1. Distinatio Diseases	=	14	*	=	100	64	04	1	13	7	CH	8	Ç1	-	13	01	88	6	-	19	60	-	-		10
2. Tubercular Diseases	46	55	=	100	36	10	1		9	99	-	100	10	10	23	-	19	8		=	8	6	05	-	91

							C	AUS	ES	<b>O</b>	F I	)EA	TB	r, c	L	se	IFI	ED.							171
:	1	1	1		1	1	1			-		-		ı	1		-	9	9	1	1	-	1	:	-
8	-	=	-	;	Ť	1	-	-	H	01	Ť	*	i	7	-	i	-	7	13	i	1	1	÷	÷	01
•	- 1	*	00	-	. 1		1	64			1	-	2	•	. 4	1	N.	o.	6	•	•	01	-		7
13,	60	80	60	1	1		1	31	Q4	-	-	7	1	1	1	1	21	99	99	-	i	31	1	1	9
F	•			•	-7	Ť	İ	1	-	1	Ť	60	i	i	i	i	1	1	T	÷	•		-	÷	- 1
10	80	-	60	-	1	Ť	-	22	01	-	1	*	İ	-	i	i	60	18	8	13	- 1	-	1	1	1
50	=	15	8	00	1	1	-	81	-	15	Ť	64	-1	1	01	i	œ	3	19	-	1	*	00	1	9
ī	1	1	1	1	1	1	1	-	1	*	1	- 1	i	1	1	1	1	*	4	1	1	1	1	1	1
23	133	=	72	64	1	i	-	00	01	9	1	-	1	1	-	;	90	9	33	1	;	1	01	1	H
43	52	29	17	7	1	- 1	83	2	-	30	1	24	1	-	04	1	7	ā	Ξ	10	1	15	8	-1	1
0	64	2	- 1	- 1	1	1	1	10	Q1	C.	1	-	1	- 1	1	1	-	9	9		:	:	1	4	1
55	0	8	=	94	1	- 2	-	13	9	7	1	7	1	1	+	1	0	20	69			10	=	÷	01
80	1	*	-	-	1	1	-	04		-	1	-	1	1	1	1	64	C.	O1	1	-	-	1	1	T
9	1	-	00	-	1	-	1	=	-	1	1	802	1	1	-	1	01	19	17		1	- 1	1	H	-1
19	22	8	27	7	1	1	60	\$	=	12	-	=	1	1	23	1	13	618	218	T	04	-	2	-	80
*	1	-	1	-	i	1	1	-	-	1	1	04	1	-	-	1	-	.01	04	1	-	1	1	1	T
100	33	19	13	=	1	1	-	17	-	18	1	-	1	-	04	;	00	99	8	1	-	90	8	- ;	01
30	10	53	16	6	;	- 1	-	23	64	13	1	=	i	1	01	1	1	119	118	i	4	15	88	1	60
Ī	1	1	1	1	1	1	1	- 1	1	1	1	- 1	-	1	1	1	1	1	1	1	1	1	1	1	1
7	03	•	-	-	1		1	9	-	-	1	01	i	i	1	1	1	=	11	1	-		1	1	1
0	-	-	-			-	-	60		1	1	1	1	1	-	1	1	9	9	1	- 1	1	-		
5	7	16	=	20	1	-	-	15	60	7.		•	1	1	1	i	0	47	46	i	i	9	6	-	7
7	11	=	10	04	1		01	=	00	30	1	-	1	1	-	-	*	40	40	1	23	•	61	- !	. 9
0	25	9		64		1	1	10	1	2	-	04	-	-	1	1	63	16	16	1	1	-	*	7	1
17	9	9	9	- 1	- 5	- 1	-	58	20	-	- (	7	;	1	1	- 1	=	12	2.	- 3	1	12	i	- 1	8
81	51	7	8	10	1	-	-	10	04	=	1	.00	1	!	04	1	7	8	88	_	10	85	9	1	60
III1. Discases of Nervous System	2. Diseases of Organs of Circulation.	3. Discases of Respiratory Organs	4. Diseascs of Digestive Organs	5. Discases of Urinary Organs	6. Diseases of Generative Organs	7. Diseases of Organs of Locomotion	8. Dis. of Integumentary System	IV1. Developmental Dis. of Children.	2. Developmental Dis. of Women	3. Developmental Dis. of Old People	4. Diseases of Nutrition	V1. Accident or Negligence	2 Battle	3. Homicide	4. Suicide	5. Execution	6. Violent Deaths	CLASS I.—ZYMOTIC	IORDER L Minematic	1. Small.pox	2. Measles	3. Scarlatina	4. Diphtheria	5. Quinsy	& Croup

. Classified.
f Death.
-Causes of Death.
PABLE XVI.—CONTINUED.
I XVI
LABLE

											8	INTE	COUNTIES,-1877	su.		-			l		1				1
CAUSES OF DEATH,—1877.	Hillsdale.	Houghton.	Huron.	Ingham.	.ninoI	losco.	Isabella.	Isle Royal.	Jackson.	Kalkaska.	Kent,	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.	Menominee.
7. Whooping cough	4	=	01	*	-	1	1	1	64	61		10	1	-	1	60	i	1	-	i	1	60		1	-
(Typhoid Fever	13	63	1	-	9	:	10	-	-	20	. 23	64	-	=	1	5	13	1	10	-	1	00	÷	÷	1
S. Typhus Fever	-	i	1	T	1	-	-	-	-	1		-	1	1	1	-	Ť	1	÷	:	-	1	1	÷	1
Typho-malarial Fever	-	1	1	Ť	i	1	+	+	1	1	_	1	1	1	Ī	i	i	1	i	1	1	1	1	1	1
9. Erysipelas	-	1	1	1	+	1	+	-	-	_	4	-	1	01	-	04	90	i	-	01	1	-		÷	- :
10. Puerperal Fever	-	1	1	01	Ť	1	+	1	+	1	2	1	1	:	1	i	i	1	-	i	i	1	-	Ci.	1
11. Carbuncle	1		1	1	i	1	+	1	1		1	1	1	:	1	-	Ť	1	1	1	1	i	+	1	1
12. Influenza	-	1	1	1	Ť	1	+	- :	01	1	1	1	1	:	i	1	1	1	1	1	-	+	1	+	:
13. Dysentery		10	*	62	01	-	+	1	01	50	*	1	1	63	CI	10	=	1	50	+	1	-	*	-	1
14 Diarrhoa	-	21		-	60	99	01	1	60	04	58	-	-	10	-	-	60	61	9	9	1	20	1	4	61
15. Cholers Infantum		ю	64	01	8	-	24	_	13	13	33	60	i	13	1	19	10	1	*	-	1	10	1	00	1
Cholera Morbus	-	co	1	İ	İ	+	+	1	+	1	64	1	i	-	-	-	1	1	-	1	+	1	+	÷	1
Cholera	1	61	1	İ	i	1	+	+	+	1	-	1	1	1	Ť	i	+	1	-	÷	1	1	1	_	
17. Ague	4	-	-	01	64	1	+	-		1	*	;	1	9	1	04	-	$\dashv$	1	100	1	÷	i	•	i
18, Remittent Forer	01	-	1	,01	80	1	-	-	10	1	•	:	1	10	1	+	1	-	1	64	1	-	-		-
19. Rheumatism	-	- 1	1	01	*	+	1	1	+	90	•	1	1		-	04	1	H	*	÷	1	÷	1	•	:
-Order 2. Enthetic	1	- 1	1	i	i	1	+	- 1	1	-	- 1	-[	1	-	i	1	i	+	1	1	1	-		•	:
3, Syphilis	1	:	Ī	İ	i	-	+	1	1	-	1	i	-	=	1	1	. 1	1	÷	+	1	1	1	1	i
g Stricture of Urethra	!		İ	Ť	Ť	+	+	+	+	1	1	1	1	1	Ť	Ť	1	÷	+	+	+	+			i
(Stricture	1	7	Ī	i	i	-	-	-	4	1	1	1	ı	i	i	i	-	-	÷	÷	÷	-		-	į

## CAUSES OF DEATH, CLASSIFIED.

# Hydronhobia	1	:	÷	T	1	:	i	1	i	+	ī	1	1	•		+	+	+	+	1	-	1	į	
4. Glandors	1	- 1	1	1	-		i	1	i	+	1	1	1	,		+	1	1	1	;	_	1	i	
L-OEDER S. Dietic	i	-	- 1	-	-		1	ŧ	i	-	-	-	- }			+	- 1	<u> </u>	1	-1			į	
1. Privation	1	:	1	1		i	1	1	i	+	1	1	i			+	+	+	+	1	_	1	į	
Parpara	1	;	4	1		1	1	1	1	+	1	i	1			+	+	-	1	1		1	į	
2. Rachitle.	1			1	1	:	1	1	1	1	-	1	1			÷	1	<u> </u>	1	1	_	1	į	
Scurry	1	:	1	1		1	I	1	1	+	:	i	1		-	1	+	+	+	1	_	1	i	
3. Delirium Tremens (Alcoholism)	:	;	1	-	-	-	1	1	1	+		1	;	٠	+	1	1	1	+	1	1	1	•	
4. Intemperance	1	=	1	1	-	!	1	1	1	1	4	-	1	1	+	1	+	+	÷	•		1	•	
IOnden 4. Parasitic		:	-	- 1	1	1	- 1	-	Ť	1		1	- 1	.,	1	-	1	1	1	1	1.	1	i	
1. Thrush	-	1	1	;		-	1	1	i	+	1	1	:		1	-	+	+	+	1	1	-1	į	
2. Worms	1	-	1	1		-	1	-	1	1	1	1	1		1	+	+	+	÷	1		-	į	
2. Disease of Scalp	1	;	-	1		4	1	;	i	1		Ţ	1		1	+	+	+	-	1	•	:	į	
CLASS II.—CONSTITUTIONAL	59	36	15	45	-	7 19	1	65	20	14	131	0	36	9	75	83	- 9	23	=	24	- 4	18	•	•
IIORDER J. Diathotic	=	77	-	=	90	04	1	12	=	64	50	1	13	01	81	6	1	19		-	-	0	i	
1. Gout	1	:		+	-	:	1	1	i	+	1	1	:		÷	1	+	÷	+	1	-	1	į	
Anamia.	-	10	1	:	01	1	1		04	-	:	1	*		+	-	1	9	+	<del>.</del>	04	Oł.	•	
Dropsy	10	01	-	9		01	1	90	60	-	13	I	-	04	-	÷	1	*		•		01	i	
3. Cancer	bo	04	60	10	10	-	1	80	6	-	7	1	-		16	10	1	; ;	1	1		-	•	
4. Noma (Canker)	-	1	1		-		1	:	;	1	-	1	:		+	+	;	-	+	1	340	1	!	
5. Mortification	-		+		-	-	1	1	i	1	-	1	п	٧.	64	$\frac{1}{1}$	+	÷	+	-	-	1	i	
IIORDER 2. Tubercular	9	81	=	20	38	5 17	-	69	26	1 1	700	9	83	4	5	30	9	*	00	20	10	55	į	
1. Scrofula	1	1	:		-	:	1	04	01	1	01	1	1	- (	-	+	:	04	+	-		1	į	
	1	1 8	1		-	: :	1	1 3	m 2	1	0	1 '	- 2	10.15	:	1 5	:	1 5	1			: :	į	
Tuthisis (Consumption of Lungs)	46	1	=	9	22	17	1		10	-	3			-		00	0	06	0	0 10	0	20		

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TABLE XVI.—(

									-	ľ		COUNTIES, 1877.	H	18	ا ن	1		ŀ			ļ	ľ	1	Ì		
CAUSES OF DEATH, 1877.	Hillsdale.	Houghton.	Huron.	Ingham.	Tonia.	losco.	Isabella.	Isle Royal.	Jackson,	Kalamazoo.	Kalkaska.	Kent.	Кеwеспам.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.	Menominee.
4. Hydrocephalus		ı					1	i	1	1	1	1	i	1	1	+	1	+	1	-	i	1	i			1
5. Marasmus	1	i	1	1			1	Ť	Ť	i	1	1	60	Ť	Ť	+	1	÷	1	-	i	1	-	1	1	-
CLASS III.—LOCAL DISEASES	8	36	50	45	62	-	53	T	101	116	9	142	81	90	67	15	126	2	1	75	18	7	22	12		9
IIIORDER 1. Nervous System	83	11	6	1	63	Q1	7	1	36	92	-	64	9	879	21	49	43	83	1	83	2	-	13	*		60
1. Cephalitis	63	01	-	*	-	04	*	1	64	9	-	15	i	1	60	1	9	10	i	*	9	1	9	-	-	01
2. Apoplexy	-		04	-			1	1	-	04	;	50	-	1	-	1	80	1	!	60	i	1	1	1	1	+
3. Paralysis	90		-	64	63		-	1	90	9	1	=	1	-	04	-	18	99	1	69	-		64	-	1	+
4. Ineanity	1	1	1	1	- 1		1	1	1	1-	i	i	i	i	i	+	1	+	1	-	1		-	i	1	1
5. Chorea	1	1	1	1			-	1	1	i	Ť	1	1	i	i	1	-	1	1	1	:		-	i	1	-
& Epilopsy	1	1	1	1	-	-	-	1	-	90	T	-	i	Ť	i	1	90	-	1	-	1		1	-	1	-
7. Tetanus	-	01	į	1	= 6		-	1	1	i	1	i	i	1	-	t	Ť	1	1	1	1	-	-	1	_	-
8. Convulsions	-	8	9	7	01	-	*	1		90	-	3	63	64	89	01	63	-	1	60	01		04			-
Brain Discaso	_	-	1	60	-	-		1	0	13	-	00	04	1	9	1	9	60	1	2	-	1	C+	-	1	+
of Dropey of Brain	-	64	_	-		1.	1	1	-	-	i	04	1	1	-	-	1	04	1	61	1		1	1	1	÷
10. Spinal Fever	-	01	1	1	60	-	04	1	80	1	1	G+	İ	ı	=	1	-	60	1	1	1		1	1	:	÷
11. Spotted Fever	1		1	1	- 1	- 1	1	1	1	1	İ	1	i	Ť	Ť	1	1	:	i	1	1		1	1	1	÷
12, Woningitis	1	1	1	ı	- 1	Ī	1	1	1	-	i	İ	i	Ť	İ	t	1	1	t	İ	1		1	1	1	-
13. Meningitis, Cerebro.spinsl	1	1	1	1	•	~	1	1	1	i	Ì	i	i	Ť	Ì	1	-	1	1	İ	1		1	i	1	+
14. Keningitis, Spinal	-	62	1	_	- 4	-	-	1	80	-	1	-	Ť	1	=	1	61	-	i	İ	1		1	1	1	1
16. Nouralgis	_		_	-		- 1			1	-		T		i	i	-	7	-	i				-	_		÷

16. Bpine Disonse	1.	i		=	_		1	04	=	=	-	+	80	-	1	80	i	1	-	7	1	;
17. Spine, Inflam. of	1	1	÷	1	-	1	Ì	i	1	:	÷	+	:	1	+	•	İ	1		1	1	1
18. Frightened	1	÷		1		1	Ī	i	i	1	+	1		1	:		Ť	+	1		I	1
IIIORDER 2 Organs of Circulation	21	9		-		110		10	22	- 1	- 5	-	6	64	121	20	1	=		89	- 1	
1. Pericarditis	-	<del>-</del>		-		1	I	-	-	1	+	4	-	1	9	01	-1	-	-		1	1
2. Anourism	i	1	÷	-		1	1	İ	1	1	1	-	1	1	1	•	İ	+	1		1	1
3. Hoart disease	=	10	00	0	-	63	1	0	12	1		+	00	01	81	=	ī	-2		60	1	1
4. Embole	i	i			_	1	1	Ť	+	1	+	1	1	1	1		Ť	1	-		1	1
III ORDER 3. Respiratory Organs	*	9	9	=	91	-	1	81	61	-	98	-	81	20	8	=	-	12		00	-	1
L Epistaxis	i	1	4			1	1	i	1	1	+	1	1	1	1		i	+	-		1	1
2. Laryngitis	i	1			-	I	1	i	+	1	÷	1	-	-	1		i	+	•	1	1	1
3. Bronchitis	i	1	-	-	-	1	1	1	1	-	01	100	01	1	-	·	1	-	1		1	i
4 Pleurisy	i	1	-	1		-	I	I	01	1	+	4	-	1	-	•	1	01		•	1	1
6. Pneumonia	13	69	-	6	21	24	1	81	14	1	=	-	3 15	60	139	9	1	-		-	-	1
6. Asthma	1	1			•	1	1	1	-	1	*	+	1	T	99	•	İ	1	1		1	1
7. Lung Discaso	-	60	-	-	-	7	1	7	-	1	04	99	-	64	40	*	ī	49	_	-	1	:
8. Catarrh	1	1	,	1	-	1	1	1	1		+	+	1	T	1	1	Ť	1		-	1	1
IIIORDER 4. Digestive Organs	90	9	,	1 9	-	-	1	16	22	1	17	90	=	1	17	17	1	50		60	65	1
J. Gastritis	*	1		-		1	1	-	1	1	1	1	1	1	1	-	1	-	-	_	1	1
e. Enteritis	30	-	-	-		-	1	9	+	1	10	01	•	1	9	80	1	16		-	63	1
& Peritonitis	1	1	-	-		1	1	-	1	1	1	04	1	1	1	2	i	1	1		1	1
4. Ascites	1	1	1		-	1	1	1	1	1	-	1	1	1	į	1	İ	1	_	-	1	
5. Ulceration of Intestines	1	1				1	Í	1	1	1	+	-	_	1	1	•	1	1	1	1	1	1
& Hernia	C+	1		-	-	1	1	i	-	1	-	1	71	1		1	i	1		-	1	1
7. Obstruction of Bowols	1	1			*	:	1	1	1	1	+	1	_	1	1	1	i	1		-	1	1
8. Intususception	1	÷	1	1	_	1	1	1	Ť	1	1	-	_	1	1	1	Ť	$\frac{1}{1}$	1	140	I	1

. Classified.
of Death,
b.—Causes
-CONTINUE
XVI.
TABLE

						j					ହ୍ର	COUNTIES, 1877.	188	1877.							İ			-	
OAUSES OF DEATH,—1877.	Hillsdale.	Houghton.	Huron,	Ingham. Jonia.	losco.	Isabella.	Jale Royal.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Кемеерви,	Lake.	Lapeer.	Leclanaw.	Гепаwее.	Livingston.	Mackinac.	Macomb.	Manlatee.	Manitou.	Marquette.	Mason.	Mecosta.	Menominee.
9. Stricture of Intestines	1	- (		i				1		1	1	-						l				1		1	1 1
10. Fistula	1	- ;		-!	_	-	1	1	1	1	1	- 1	1	1	1	1	•	1	i	- 1		- 1	- !	- 1	+
11. Stomach Diseases	64	- 1	1	01	04	- 1	1	63	00	- 1	60	-		1	- 1	9	9	1	-		-	1	_	1	+
12. Pancroas Discase	1	- 1	1	1			1	1	1	- 1	1	1	1	1	1	1	,	1	1			ì	_	1	1
13, Hepatitis	1	- 1	1	!		1	1	1	- 1	1	1	1	1	1	į	1		1	1	1		i		- 1	1
14. Jaundico	1	- 1	1	1		1	1	-	i	1	-	- [	- 1	-	1	-	•	1	-	1		i	_!	_!	- 1
15. Liver Diseases	60		1		*	į	1	*	1	i	9	1	1	10	-	01	- 1	1	-	64	-	i	-	-	-
16. Spleen Discases	-	- 1	1		-	-	1	1	-	1	1	1	1	i	1	1	•	1	1	_		1	- 1	- 1	1
17. Bowel Diseases	1	- ;	1	-!		1	-	1	-	i	1	-	-	04	- 1	-	61	1	-	1	_		-		1
18. Mouth Discase	1	1	1	1		į	1	1	1	1	1	1	1	1	-	1		1	-	i		1	1	1	+
IIIORDER 5. Urinary Organs	10	-	C4	69	49			6	=	1	7	0		01		7	64	- 1	60		_			-	_
l. Nophritis	-		-	÷	-	4	-		1	- 1	1	1	1	1	1	i	•	-	1			-	- 1		- !
2. Ischura	1		1	1		1		i	1	1	1	1	1	1	-	1		-	1	i		-	- !	-!	-
3. Bright's Disease of Kidneys	64		1	1		1	1	-	04	i	-	_	1	-	1	-	•	i	-	1		-1	1	- !	1
4. Diabetes	-	_	-	1		1	1	2	63	1	61	1	1	-	1	60	-	1	-	1		1		1	+
5. Calculus (Gravel, etc.)	i		1	1		1	1	-	-	1	-	1	-	1	-	-	-	1	1	i		- 1	1	-!	1
6. Oystitis.	-	- 1	1		64	1	1	1	i	-		1	1	1	1	1	•	1	1	1	-	1	1	-	-
7. Kidney Disease	1	-	1	01	60		1	61	10	-	64	1	1	1	1	G.	=•	1	-	I		1			1
III - Order Generalive Organs			-	_	-,	_														_ [	_		_		_

1. { Ovarian Dropsy		-		1	1	I	1	Ť	ī		I	1	1	÷	1	1		1	ī	1	
Ovarian Tumor	1		•	1		1	1	t	1		İ	1	1	;	1	10		1	1	1	
2. Diseases of Uterus	1	1		i	1	1	11	Ť	1		1	1	1	1	1	1		1	1	1	
III ORDER 7. Organs of Locomotion	1	- 1	-	1	1	1	1	i	1			1	-	i	- 1	- 1	-	-	-	-1	
1. Arthritis	1	1		1	1	i	1	t	1		1	- 1	1	i		1		1	1	1	
2. Joint Diseases	1	1	-	t		1	i	Ť	1		-	î	1	i	1	1		1		1	
IIIORDER 8. Intognmentary System.	1 1	61	-	i	- 1	-	-	1	63		-	130	93	-	1	-	-	-	1	_	
1. Phlegmon	1	-	•	+	1	-	-	1	01		i	1	-	-	i	+	-	Ť	1	1	
2. Ulcor	1	1	•	i	i	1	1	1	+		1		1	- 1	-	1	1	1	1	1	
3. Skin Diseases		-	-	t	1	1		Ť	1		-	1	64	1	1	-	1	÷	-	-	
OLARS IV.—DEVELOPMENTAL DISEASES.	21 33	15	85	00	00	40	98	04	89		98	14	46	16	ю	33	91	8	24	10	
IVORDER 1. Dev. Diseases of Children	28	0	2	63	9	- 25	11	-	4	=	2	10	13	æ	-	81	22	50	01	-	
1. Still.born	95 7	01	=	20	0	8	7	-	6	10	15	6	=	90	-	50	=	58	04	1	
Infantile	-	1	64	1	1	-	-	1	94	+	1	-	-	i	1	1	- 1	1	1	1	,
Premature Birth	-		•	i	;	01	1	İ	1	-	i	1	1	1	1	;		-	i	+	
& Cyanosis		1	1	Ť	1	1	i	i	+	+	1	- 1	1	i	1	1		;	1	+	
4. Spina Bifida	-	1	-1	İ	1	1	1	i	+	+	1	i	1	i	1			1	_	1	
5. Other Malformations	1	1	Q1	t	1	1	1	1	1	1	1	1	ľ	i	1	1		1	1	1	
6. Toothing	1	1	- 1	1	-	1	01	1	-	+	П.	- 1	1	i	1	04	64	01	1	+	
7. Injury at Birth	1	1	1	1	1	1	ï	t	1	1	i	O.	1	i		1	-	1	T	-	
IV ORDER 2. Dev. Discases of Women.	99		63	1	-	01	-	7	=	1	9	64	*	C4		-	64	61	1	-	
Dysmenorrhes	1	- !		1	1	1	;	i	+	+	1.		1	Ť	1	-	1	1	1	+	
Turn of Life	1	_	1	i	4	1	1	1	-	-	i.	:	1	1	1	- 10		1	1	-	
Childbirth	60	•	60	1	-	04	г	-	9	+	9	64	*	01	:	-	64	01	1	-	
& Abortion	1	-	•	1	1	1	1	1	1	+	1	4	-	1	1	1	-	1	1	+	
Uterine Hemorrhage		-		-	74	-	9	=	-1	-	1	-	;	-		-	<b>3</b>	-	_	4	

TABLE XVI.—Continued.—Causes of Death, Classified.

	_1			ľ	ľ	ľ					ŏ	E DO	Counties,—1877	181											
CAUSES OF DEATH,—1877.	Hillsdale.	Houghton.	нотоп.	Ingham.	.almoI	Toeco.	Isabella.	Isle Royal.	Jackson.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leclanaw.	Lenawee.	Livingston.	Mackinac.	Macomb.	Manlatee.	Manitou.	Marquette.	Mason.	Mecosta.	Menominee.
IVORDER 3. Dev. Dis. of Old People	×		9	9	=	I	-	-	13	35	7	2	-	-	61	-	9	*	10	1			1	C1	-
1. Old Age	=	-	10	9	7	T	-	T	13		_	-	1		10	8	9	*	12	-	1	-	1	01	-
IV.—ORDER 4. Diseases of Nutrition  1. Atrophy and Deblilty	11	11		TI	11	TT	TT	<b>-</b> iii	+	+	1 1	++	+		_! !	11	11	11	11	11		1 1		11	11
CLASS V.—VIOLENT DEATHS	11	18		0	O)	-	64	1	98	13	80	30	10	60	15		60		12	90	63	88	-	9	61
VORDER 1. Accident or Negligence	00	7	01	* *	*	1	01	T	= :	-	01	7			7	_	•		04	•	60	-	•	• .	-
2. Wounds	1	1 -	1 1	• 1	1	ii	Ϊİ	1 1			1 1	1 1	<u> </u>	1		"	1		1 1		1 1	1 1	1 1	1	
2. Burns and Scalds	64	1	-	-	T	T	-	1	04	+	:	64	1	-	-	60	1	1	i	-	1	1	1	-	
4. Poison	-		1	-	Ī	Ť	i	Ť	1	-	1	1	+	-		1	64	1	1	1		1	1	ì	1
6. Buffocation	C4	•	1 1		e	Ħ	Ti	П	60	$\mathbb{H}$	1 1	9 1				•				64			1		- 1
7. Otherwise	61		H	-	1	1	=	T	-	-	64		+	1	1	•	-	1	61	-	60	60	1	1	
VOEDER L. In Battile	1	-1	- [	T	T	T	Ť	÷	+	+	-:	+	+		1	1	1			-	1	1	i	1	-
V.—ORDER S. Homicide	11	11	11	11	11	Τİ	Τİ	Ηİ	11	11	4	4	4	11	11		11	11	11	- 1		1 1	1.1		11
VOrdur 4. Suloide	61	- 1		-	Ť	Ť	i	T	04	61			4		_	01	-	- 1	~		- 1		1	-	
7. WORDS.																				•					

2. Polson	1	1	7	4.	+	1	1	-		_	+	1	_	1		1	1		1	1		1	1
2. Drowning	1	1	1	1	1	İ	1	1	1	11	-	1		1	1		1	1		1	1	1	1
4. Banging	1	1	:	:	1	i	1	+	1		1	1		1	1	1	1	-	1	1	1		1
5. Otherwise and not Specified	01	1	1	:	T	+	i	-	1	0.11	1	1		1	_	1	1	1	:	1	1	-	1
ORDER 5. Execution	1	1	-1		1	Ť	1	+	-		1	4		-	- 1			1	1		1	1	ŧ
1. Hanging	1	1	:	1	Ť	1	1	÷	1		1	1		1	1	1	1	1	1	1	1	İ	1
CORDER & Violent Deaths not In-	7	**	-	45	-	i			- 00	-	12	04	69	•				00	63	1	12	-	-
JMOLASSIFIED	_	61	C+	1	-	İ	1	-	-	-		1	- 4	1	1	1	1	-	1	-	64	1	1
1. Hemorrhage	1	-	04		1	İ	1	1	-		4	1		1	1.	-	1	-	:	-	01	i	1
2, Infammation	_	-	:	1	-	İ	1	+	1		61	1	_	+	1	1	1	1	1	1	1	1	1
8. Otherwise	-	1	1	1	İ	Ť	i	1	+	- 1	1	1		1		1		1	-	1	:	1	1
Causes not Specified	21 67	7	1	11	80	0	- 1	77	16	01	=	01		81	8 17		1 6	6	21	1	19	9	ю.

Classified.
f Death,
.—CONTINUED.—Causes o
XVI.
TABLE

	1	-	-	-	-	-	-	-	-	-	-	-	-	_	-				1_	1	-	-	1 1 1	1 1 1 1	1 1 1 1 1
CAUSES OF DEATH,—1877.	Midland.	Missaukce.	Monroe.	Montcalm.	Muskegon.	Newsygo.	Oakland.	Осевпа.	Ontonagon,	Osceola.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	Sanilac	Schoolcraft.		Shlawassec.	Shlawassec.		St. Chair.	St. Chair.	St. Clair. St. Joseph.	St. Clair. St. Joseph. Tuscola.
All Causes	25	, 0	265	3	115	64	324	92	174	18 64	1-4	6 274	4 19	_	535	186	49	-	158	58 324		324	324 199	324 199 164	324 199 164 218
Specified Causes	1 23	1 9	1 22	1 6	101	1 99	303	1 23	-	16 51		616 9	9	-	465	851	2	135	10	5 274	1	27.4	274 186	274 186 153	274 186 153 202
Causes not Specified	ю	00	9	52	00	00	5	6	,	•	13	8	80		2	84		23		20	50 13		13	13 11	13 11 16
CLASSES.				-			-				_	_													
IZymotic Diseases	11	64	69	7	15	=	23	27	1	-	+		69	1	121	53	1	39		73	73 49		67	49 29	89 55 48
IIConstitutional Diseases	6	1	19	81	55	77	69	19	-	64	19	01	22	1	90	20	1	30		69	60 39		68	39 30	39 30 49
III.—Local Diseases	17	60	83	40	45	23	611	17		00	55	1 6	69	04	13	7	00	49		28	78 66		99	99 99	66 56 72 3
IV.—Developmental Diseases	60	-	2	7	14	60	83	-	1	1 9	13	01	63		85	18	1	13	-	36	36 23		83	23 26	23 26 21
VViolent Deaths	6	1	21	G.	6	10	=	9	1	_	9	64	50	1	68	80	1	99		17	17 9		6	9 11	9 11 11
Unclassified	-	T	64	Ť	1	1	00	1	1		_		-	1	9	-	-	-		-	-	1 1	1	1	1
Овреве.						_	-	-	_	_	_	_	_	_											
I.—1. Miasmatic Diseases	H	C4	69	9	21	H	17	72	!	-	60	28	6	1	119	28	-	8	-	73	3 49	_	49	49 28	49 98 47
2. Enthetic Diseases	i	Ť	Ť	Ť	1	1	1	- 1	1	_	-	1	1	1	1	-	-	-	1		1	_	1	1	1
2. Dietle Diseases	İ	1	1	-	+	1	-	1	1	4	1	1	1		_	1	1	ij	1		1	-	<u> </u>	1	1
4. Parasitic Discases	1	Ť	Ť	÷	1	÷	+	+	1	+	1	1	1	1	_	1	1	1	1	1	1			-	-
· II.—1. Disthetic Diseases	01	1	12	6	0	04	15	69	1	-	09	01	60		g	13		10	24	7	8		80	8 7	8 7 36
• Triberenter Diseases	4		25	1.0	16	-	-		_			•	00		ā	10		06	4	_	_	10	21 02	21 02 02	31 93 33 61 271

III1. Discases of Nervous System	63	-	1 12	2	16	09	9	ī	-	-	- 69	_	01	199	17	F	52	27 3	61	66	*	272	1	
2. Diseases of Organs of Circulation	*	-	64	60	01	13	01	i		1			1	=	01		10	01	09	9	2	8	-	
3. Diseases of Respiratory Organs.	9	-	20	=	*	5	00	1	*	9	1 17	61	1	89	13	H	01		0	0 30	17	Ħ	1	
4. Diseases of Digestive Organs	65	16	20	*	1	23	00	i	CH	9	10	_	1	84	00		1	9	-	-	2	69	1	
5. Diseases of Urinary Organs	-		63	1	-	00	61	1		69	04		i	*	7		10	-	60	60	9	10	-	
6. Diseases of Generative Organs	1	1		1	:	01	1	+	1	1	1		1	-	i	-	1	-	-	-	_	1	1	
7. Diseases of Organs of Locomotion	-	1	1	1	:	i	1	1	4	1	1		1	1	1	+	-	1	-	-	64	-	1	
8. Dis. of Integumentary System	-	-	:	80	1	69	-	1	7	64	1		1	04	-	1	1	61	-	-	1	11	1	
IV J. Developmental Dis. of Children.	61	=	15 7	10	1	F	80	1	63	7	1 36	- 40	- 1	29	13		*	10	10	12	13	H	63	
2. Developmental Dis. of Women	1	-	-	-	-	п	04	1	,	=	_	60	G4	10	-		00	*	-	7	01	27	1	
8. Developmental Dis.ofOld People	7	-		60	C1	17	4	1	01	9	7		i	18	10		9	12	69	10	65	8	1	
4. Diseases of Nutrition	1	- 1	4	1	1	i	Ť	+	1	1	1		1	1	1	+	1	1	·	1	1	1		
V1. Accident or Negligence	90	-	6	2	ÇI	60	0	1	-	-	6		i	21	04	-	20	15	60	2		47	. "	
2. Battle	1	1	- 1	1	;	i	1	1	1	+	1		-		1	- :	;	- 1	-	- 1	1	i	1	
3. Homioide	1		-	1	1	64	1	1		1	-		1	1	1	1	;	-		- 1	_	_	1	
4. Suicide		1	- 1	1	:	H	1	+	-	1	10	-	1	*	1	+	-	1	60	-	4	7	1	
6. Execution	1	- 15	1	1		i	1	1	1	+	1		i	1	1	1	1			1	1	1	1	
6. Violent Deaths	1		20	E4	99	10	-	1	-	61	10		1	6	г	1	1	G4	00	80	01	01	1	
OLABS I.—ZTMOTIG	14	61	69	101	11	72	15	1	-	*	- 53	_	i	121	88	-	89	73	61	29 48	82	570	-	
IORDER 1. Miasmatic	14	64	69 40	21	7	17	77	1	_	100	. 59	_	1	119	89	H	29	23	63	28 47	8	266	1	
1. Small-pox	1	-1	1	1	1	80	1	1	1	1	1		1	1	80	-1	1	60	•	1	1	20	1	
2. Measles	1	7	Ç1	-	-	H	1	1	1	1	1		1	01	1	1	1	-	*			8	-	
8. Scarlatina	-	-	-	1	1	9	80	1	1	1	63		1	-	1		6	-	01	13	8	66	1	
4. Diphtherla	64	1	80	00 C+	60	12	1	1		1		9	1	13	17		-	22	10	_		13	i	
5. Quinsy	1	1	1	1	1	i	İ	1	1	1			1	ì	1.	+			1	ì	- 1	61	1	
6. Oroup	1		C4	-	1	-	Ť	1	1	1	9		1	00	60	1		7	<del>-</del>		01	58	64	

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CAUSES OF DEATH,—1877.	.bualbiM	Missaukee.	Monroe.	Muskegon.	Mewaygo.	Onkland.	Осевия.	Ogemaw.	-noganotno	Osceola.	Otsego.	Otthwa.	Presque Isle.	новесопиов.	Saginaw	Sanline.	Schoolcraft.	Shlawassee.	St. Clair.	st. Joseph.	Tuecola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
7. Whooping-cough	1	1	9	00	1	1		1	1	1	i	1	i	-	14	9	I	CI	H	49	-	-	O4	27	
Typhoid Fover	Ē	1	10	9	60	=	63	1	İ	1	1	90	i	I	2	10	1	10	=	100	-	10	71	8	:
8. Typhus Fever	i	;	+	-	i	-	1	1	i	i	1	01	1	1	-	-	+	,	+	1	-	00	=	00	
Typho-malarial Fever	i	1	+	-	1	-	1	1	İ	i	i	i	T	Ť	÷	1	+	:	1	+	1	+	i	i	- 1
9. Erysipolas	İ	1	-	-	1	60	1	1	i	i	1	00	i	1	Q1	100	1	-	01	-	-	60	01	00	- 1
10. Puorperal Fever	1	1	+	+	1	1	-	1	i	i	Ť	i	1	i	÷	1	1	-	+	1	1	-	1	+	
11. Carbuncle	1	1	+	1	1		1	1	İ	i	i	i	i	1	+	+	1	+	1	1	:	1	+	1	1
12. Influenza	i	1	1	-	1	į	1	T	i	i	i	1	1	Ť	1	1	-	+	+	+	+	:	-	i	
13. Dysentory.	4	;	-	-	64	13	9	1	1	00	1		1	1	13	-	-	9	-	1-	-	-	00	92	1
14. Diarrhea	-	1	01	00	01	*	4	1	İ	i	1	10	H	1	16	9	+	1	21	-	:	1	-	52	:
15. Cholera Infantum	10	01	-	9	1	7	7	1	i	1	1	0	1	- 1	85	-	-	*	10	4	00	60	13	53	-
Cholera Morbus	j	1	00	,	1	1	1	1	İ	1	i	1	i	Ť	1	20	1	-1	-		1	-	01	*	
Cholera	•	1	+	+	-	i	i	,	i	i	Ť	i	1	H	-	- 1	1	-:	F	1	7	-	-	*	i
17. Ague	-	1	10	-	_	1	-		i	Ť	1	00	1	1	7	01	_	90	90	01	-	*	QH	17	- 1
18. Remittent Fovor	•	1	C4	60	6	1	1	•	+	i	1	9	÷	-1	10	01	- 1	7	10	-	1	61	01	00	- :
19. Rheumatism	•	1	1	60	-	*	ł	•	1	i	i	i	+	1	OI.	-		H	10		01	60	*	9	:
IORDER 2. Enthelic	•	1	+	+		-	1	•	1	-	i	i	i	i	-:	1		- 1	-1	1	-		-	00	•
1. Syphilis	•	+	1	1		1	1		1	+	Ť	1	÷	÷	1	1	1	1	1	1	1	141	11	00	•
Stricture of Trethra.	•	+	+	1	Ĭ	i	1	•	1	Ť	÷	Ť	÷	1	1	1	i	+	:	1	7		÷	÷	1
Strioture	<del>-</del>	-	-	4	_	-	1	Ť	1	i	-		-	-	-	i	_	-	-	-		-	-	-	•

Obolism).  Obolism).  Obolismi	s. Hydrophoble	1	***		1	1	E	Ī		:	-	1	100	1	1	1	Ť	T	1	;	1		Ť	÷	1
Obolism).  Obolism).	4. Glanders	i	_		_	.1	1	i	i	1	1	_			1		i	1	1	1	1	1	+	+	
Obbolism).  Obboli	IOrder & Dietle	1	1	1	1	- 1	-	1	1	1	1	_		1	1	- 1	i	1	- 1		1	1		- 1	;
00bolism)  00bolism)  1	1. Privation	1	_	_	1	1	1	i	1	+	_	_		1	1	1	1	1	- 1	:	1	-1	1	1	
Obbilism).         1	Parpars	_	1	1	_	1	1	1	1	1	1	_	_	_	1	_	Ī	1	:	1	- 1	1	-	+	
Obbolism).         1	2. Rachitis.	1	1	1			1	1	1	1	1	1		1	1	1	i	1	:	1	1	1	1	÷	:
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1	4. Intemporance	i		1	1	1	-	1	Ī	1	+	1	4	1	7	1	Ī	1	1	4	1	-1	-	÷	
9	IORDER 4. Parasitic	_	1	1	_	- 1	1	i	1	1	1	1		1	1	1	Ī	1	1	1	1	-	;	-	4
2 - 51 - 22 - 21 14 69 19	1. Thrush	_	_	_		1	1	1	1	1	-	1		1	1	:	Ì	1	1	+		-	1	+	
2	2. Worms	1			_	1	1	_	1	1	_	_		_	1	_	1	-	1	1	1		:	-	
9	3. Disease of Scalp	i	_		_		1	1	i	1	1	1		_	1	1	1	1	1	1	1	1		+	1.
2 - 15 9 5 2 12 8 - 15 1	CLASS IL —CONSTITUTIONAL					14	69	19	1	04	ю		12	1	100	45	-	30	69	88	30	49		25	
1	IIORDER 1. Diathetic				_		21		1	-	60			_	13	13	1	10	57	90	7	16		-	4
1	I. Gout	i	+	1	1	1	1	i	Ť	+	+	1	-	1	1	:	1	1	1	;	1	;	1	÷	
1	Anamia	İ	_			CI	-	_	1	-	1	-	6	1	01	60	1	0.9	90	-	7	-	-		4
1		_					10	=	1	1	80				8	7	1	4	00	0	-	64	10	- 88	. 31
7 36 13 16 13 57 18 1 2 29 1 81 21 20 45 31 20 35 61 1 65 16 1 2 20 1 7 20 20 44 29 29 32 59	3. Osncor	-		00	80		10	Oł.	1	1	1	1		-	1	61	1	-	00	04	10	=	œ	40	-
7 36 13 16 12 57 16	4. Noms (Canker)	İ	T	H	1	1	-	i	1	1	+	1	. 1	1	20	-	1	10	;	1	:	-	1	-	4.
S 13 15 15 16 16 1 2 2 29 1 21 20 45 31 23 33 61 6 7 16 7 16 7 1 2 7 29 1 7 20 20 44 29 29 33 69 69 69 69 69 69 69 69 69 69 69 69 69		_	1	-	1	4	1		Ť	1	1	_			-	:	1	1	1	t.	-	-	1	01	4
la					- 10		57		-	1	_		g	1	81	21	1	50	45	33	22	65		12	4
of Lungs) 6 35 13 15 11 26 16 1 2 20 1 77 20 20 44 29 22 32 59	1. Scrofula	i	1	-	-	H	F	1	1	+	1	1	- 1	1	1	1	1	1	1	1	-	- 1	01		
of Lunes 6 35 13 15 11 55 16 1 2 20 1 77 20 90 44 29 22 32 50		<u> </u>	1		1	1	01	1	1	1		_	1	1	-	:	1	1	1	01	-1	н	:	-	
	8. Phthisis (Consumption of Lungs)	9	1			=	22	16	1	-	01		93	1	11	50	1	50	44	8	81	65	200	65	4

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Causes of Death,—1877,	Midland.	Missaukee.	монтое.	Montenim.	Muskegon.	Newaygo.	.bastland.	Осеапа.	Ogemaw.	Ontonagon.	Osceola.	.ogostO	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	Sanllac.	Schoolcraft,	Shlawassee.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
. Hydrocephalus							1	1	Ì	1	1 - 1	1	1	1	1 .	01	1	1 1	1 1	1 :	1 -1	1 1	1 1	1 :	H
. Marasmus	-	1	1	1	1	-	1	1	Ť	Ť	-	Ť	÷	d.		+	1	1	1	1			1	1	*
88 III.—Local Diseases	17	60	63	40	64	65	119	11	I	00	81	-	69	01	01	131	44	00	67	78	99	99	75	107	558
-ORDER 1. Nervous System	80	-	27	6	22	16	9	9	1	1	4	1	35	;	O1	99	17	-	21		22			43	272
. Cephalitis	-	1	7	60	00	4	. 04	H	1	1	- 1	1	9	1	-	+	OF		-	7	4	9	01	10	833
Apoplexy	1	1	60	1	I	1	1	1	1	1		i	9	1		61	-1		1		00	00	00	9	6
. Paralysis	1	-	00	-	*	91	19	-	Ť	1	•	1	+	- 1			-01	-	ю	10	=		60	6	62
. Insanity	1	1	-	1	1	1	-	1	1	1	•	i	1	1		-	1	1	1	. 1			-	4	*
. Chorea	1	1	-	1	1	1	1	1	1	i	- 1	i	1	1	-	i	1	1	1	1.1		-	1	1	-
. Epilepsy	1	1	-	1	7	1	7	1	İ	i		i	1	1		1	1	+	+				-	+	1
. Totanus	1	1	1	1	1	i	1	Ì	i	i	•	1	i	;	-	1	:	1	1	-	-1	1	:	-	ਜ
Convulsions	1	1	6	01	10	CH	9	64	1	г	-	1	16	1	-	18	-		09	10	-	9	-	9	11
Brain Disease	1	1	4	01	-	-	16	-	1	1		i	+	1		7	-	-	64	01	03	61	9	89	90
Dropsy of Brain	1	1	-	1	-	1	00	Ī	1	1		1	Ť	1		10	01		09		_,	-	+	-	13
. Spinal Fever	-	1	-	1	1	9	1	1	İ	i	11.0	1	01	1	7	90	-	1	1		*	9	60	-	64
. Spotted Fever	1	1	1	1	1	1	1	Ì	İ	İ	•	1	-	1		i	1	,	64			1	1	÷	1
. Moningitis	!	1	1	1	1	1	1	-	1	i		1	1	ī		-	:	1	-	01	- X		-		69
. Moningitis, Cerebro-spinsl	1	1	1	1	i	1	-	1	İ	1		1	1	1		-	1		-	•		1	+	÷	-
. Meningitis, Spinal	1	1	-	1	-	1	H	İ	1	i	•	1	i	1		=	1		-	4		61	1	-	н
Menrelela	-		1		-				j	i	-4	1	-			-	-	1	-	_	-	-	-	-	Ţ,

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17. Spine, Infam of	j	1	1	1	- 1	-	1	1	+	1	1	1	1	1	1		;		1	÷	+	:	-	
ls. Frightened	i	1	1	1	1	1	1	÷	1	1	1	1	-	1	1	ř	1	1	1	+	+	1		•
IIIORDER 2. Organs of Circulation	*	-	93	60	01	13	69	;	-	01	_	100	-	=	64		9	10	00	10	1	10	80	-
1. Pericarditis	1	1	-	_	-	10	-	+	-1	1	1	1	-1	-	- 1	- 1	7	- 1	-	;	61	-	9	•
2. Aneurism	i	1			1	1	1	1	+	1	1	1	1	1	-1		1	1	1	1	+	1	1	•
3. Heart Disease	00	-	11	61	01	90	-	-	-	61	-	9	- 1	10	64		4	10	-	10	51	2	74	_
4. Emboli	j	1	1	-1	1	1	1	1	1	1	1	1	-	1	:	- 1	- 1		1	1	+	-	1	•
III -ORDER 8. Respiratory Organs	9	-	11 20	=	*	91	69	1	4	9	11 17	01	-	88	62	н	10	5	10	10	98	11	11	_
l. Epistaxis	i		1	- 1	1	i	1	+	1	1	1	1	- 1	1	1	-		1	1	1	+	-	1	,
2. Laryngitis	i	1		-	-	1		1	1	1	1	1	-	1	-1	- 4	:	1		1	1	-	-	
& Bronchitis	1	1	-	-	1	1	:	1	1	1	_	01	1	60	1	-	1	01	-	-	+	_		•
4. Pieurisy	1	1	60	1	1		:	+	4	-		01	1	1	1		+	1	-	1	1	-	-	
& Pneumonia	10	-	6 14	9	*	16	00	1	*	20	. 13	1	1	13	6		00	13	00	-	16	10	22	_
6. Asthma	1	1	:	1	-	1	-	÷	+	1	_ !	1	1	-	1		-	-	1	-	01	1	6	٠.
7. Lung Disease	1	1	61	63	1	03	1	+	1	•	-		1	13	60	-	1	10	-	-	01	1	33	
8. Catarrh	Ì	1	1	11	1	1	1	1	-	1	1	1	1	1	1.	1	1	1	1	+	-	-		
IIIORDER 4. Digestive Organs	80	-	100	4	-	13	100	1	01		7	1	-	8	00		-	16	H	11	6	19	22	
1. Gastritis	1	1	_	1	1	00	1	1	1	-	1	1	-	-	-1		-	1	-	1	-	64	60	
2. Enteritis	1	1	61	1	1	9	01	1	64	69	_	1	1	14	00	_	20	2	9	4	60	17	1	
3. Peritonitis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	;	1	1	;		-	04	-	
4, Ascites	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	:	1	+	,		
5. Ulceration of Intestines	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	;	1		-		
6. Hernia	1	1	1	1	1	-	1	1	1	1	1	1	1	1	п	1	1	7	:	-	-			
7. Obstruction of Bowels	i	1	-	!	1	1	1	1	1	1	1	1	1	1	1	:	+	1	:	-	÷		91	
8. Intustuscaption	1	1	1	1	1	1	+	+	1	1	1	1	1	1	1	1	Ť	1	7	+	1	-	-	

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9. Stricture of Intestines	1	1	1		1	-	1	1	i	- !		i		-	•	-	1		- 1	1		- 1		-1	
10. Fistula	1	1	1	-	1		1	1	1	-	_	1	-	1	•	1	1	1	1	1	i	1	1	- 1	:
11. Stomach Diseases	1	-	1	-	-	- 1	1	- 1	1	-	-	01		ı	7	-	1	1	CH	-	63	60	01	*	-
12. Pancreas Disease	1	1	1	•		-	1	1	1		- 6	į		1	= *	1	1	-	1	i	i	1	i	:	
13. Hepatitis	i	1	1	-	1	-1	1	1	1	1	_	-		1		1	:	-	64	1	-	1	1	-	
14. Jaundice	-	1	-	÷	1	+	1	1	1	1		-	-	1		1	i	1	01	1	_ i	1	i	-	
15. Liver Discaso	93	1	r	-	1	1	04	-	1		-	60	52	1	-	Gr	1	1	*	64	C.	-	*	13	
16. Spleen Disease	1	- !	1	1	1	-	1	- 1	1	1		1	_	- 1			1	1	-	•		1	1		
17. Bowel Discases, etc	1	1	1	-	C4	,	-	1	1	-		i	-	- 1		1	1	1	-	-	_	-	-	6	
18. Mouth Disease	1	1	1	-	1	1	1	1	1	-		1		1	.,	1	1	1	-		•	i	-	-1	
III,-ORDER 6. Urinary Organs	i	_	M	Çŧ	- 1	-	00	64	1		04	.04	202	- 1	*	*	1	10	-	00		10	10	10	
1. Nephritis	i	1	1	Ç1	1		-	+	1	1		1		1	•	_	1	1		-	_	1	1		
2. Ischuria	1	1	1		1	1	+	1	1	-		1		1	*	i	1	1	1			1	i	:	
3. Bright's Disease of Kidneys	1	1	1	- 1	1		01	1	1	1		-		į,	_		1	-	1			60	-	•	
4. Diabetes	1	1	-	7	1	-	-	1	-	1	1	_		1		7	1	-	1		_	_	_	_	
6. Calculus (Gravel, etc.)	1	1			1	+	1	-	- 1	-	-	_			_	_	1	1	i	- *	-		1	•	
6. Oyetitle	-	1	i		1	÷	1	-	1	1		- 1			-	1	i	-	-	_	_	_	*	1	
7. Kidney Diseases.	İ	1	1		1		+	1	1		-	_	01			1	1	04	1	_	-	1	_	89	_
IIIOrder 6. Generative Organs	_	_	1		- 1		01		-	_	_		_					-	_	_		_	_	_	_

## CAUSES OF DEATH, CLASSIFIED.

Ovarian Dropsy	İ	1	1	1	1	1		1	1	1	F	3	Ī	1	-	İ	1	1	T	+	1	1	
Ovarian Tumor	İ	+	1	1	1	-		i	1	1	1	•	1	1	=	1	1	1	1	1	-	1	
2. Diseases of Uterus	i	1	1	-	1			1	1	j		1	1	-		1	-	-		+	+	1	
III.—ORDER 7. Oreans of Locomotion.					- 3															-	0	-	
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2. Joint Discares		-	1				Ī		1			1		1		1	1	1		1	1 0	1 -	
														1						_			
IIIORDER 8. Integumentary System.	+	1	7	-	00	C.)	м	-		OI.		1	1	01	_	1	01	-	н	-			
l. Phlegmon	i	1	04	_		1	n	1	-	61	1	- 1	1	-	•	1	1	-	1	+	-	9	
2 Ulcer	*	1	;	1	1	1	1	1	1	1	1	1	1	1		1	1	1		1	-	-	
3. Skin Diseases.	-	•	01	_	01	64	1	1	1	1	1	1	1	7		1	91	1	-	-		0	
OLASS IV.—DEVELOPMENTAL DISEASES.	89	-	88	14	50	81	11		5 13	24	45	00	61	82 18		22	36	23	98	- 5	43 263	99	
IVORDER 1. Dov. Diseases of Children		1	15	7	10	=	90		00	1	38	:	-	59 13		*	15	10	15	-	10	-	
L. Still-born	-	1	21	7		10	7		7	1	65	:	-	12		60	15	91	14	-	0 9	76	-01
Infatile	i	1		1	1	-	1	1	1	1	64	1	1	1 3	- 1	1	1	1	1	1	-	-	
Premature Birth	i	1	OR	1	1	1	1	ı	1	1	C)	+	-	6		1	+	;	п	+	-	60	
3. Oyanosia	1	1	1	1	1	1	1	1	1	1	•	1	1	1		-	+	-	1	1		-	_
4. Spins Biffds	1	+	:	i	1	-	1	1.	1	i	•	1	+	1	<u>.</u>	1	+	;	1	1	+	1	
& Other Malformations	1	1	-	1	1	1	H	1	1	1	1.8.	1	1	1	•	1	1		1	+	1	1	
6. Teething	-	+	1			-	1	1	1	1	•	1	1	:	•	1	1	1	1		60	1	
7. Injury at Birth	1	-	-	1	1	1	1	1	1	1	•	i		1	•	+	1	1	1	+	1	1	
IV ORDER & Dev. Diseases of Women.	1	1	-		1	-	C+	į	-	-	·	93	04	1		00	*	-		*	61	1	
) Dysmenorrhes	1	+	1	1	1	-	1	1	1	1		1	÷	1		1	+	+	-	1	-	1	
Tarn of Life	1	+	1	i	1	1	1	i	1	i	1	1	;	1		+	1	-		1	1	1	
Controller	1	1	*	99	1 1	-	04	1	-	-	•	01	04			00	*	-	9	4	50	-	
bortion	1	1	1	1	1	1	1	1	1	1	•	-	1	1	-	+	1	:		1		1	_
		-	7	_!	_			_	_		-	-	-	69		-	-	7	-	1		Ų.	

Classified.
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XVICONTINUEDCauses
TABLE

												UNT	E8	COUNTIES1877.											
OAUSES OF DEATH,—1877.	Midland.	Missaukce.	Monroe.	Montealm.	Muskegon.	Newaygo.	Осевпа.	Ogemew.	Ontonagon.	Osceola.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	Sanflac.	Schooleraft.	Shlawassec.	St. Clair.	Bt. Josebp.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
IVORDER 3. Dev. Dis. of Old People.	7	-	0	-	00	.01	71	4		61		7	1		18	10		9	17	15	4	10	81	95	
1. Old Age	н	-	a	7	60	01	17	-	-	64	10	-	1	1	18	ю		8	17	21	7		81	35	1
IVORDER 4. Diseases of Nutrition	i	1	1	1	-;		1	- 1		1	_ [	į	1	- 1	_	1		-		1					1
1. Atrophy and Debility	i	i	1	1	+	1	+	1	1	1	1		1	1	1	1		1	1	1	1	-	1	1	1
CLASS V.—VIOLENT DEATHS	6	į	22	04	6	10	=	9	_		9	30	_	- }	55	00		60	17	0	=	=	15	83	
V ORDER 1. Accident or Negligence	00	-	9	-	7	04	00	10	1	-	1	9	_	1	13	01		00	15	00	7	90	7	47	
1. Fractures and Centusions	i	1	-	1	01		-	1	1	1	1	00	1	1	01	1		-		-	1	:	60	13	
2. Wounds	-	1	+	+	1	1	1	1	1	-	1	1	1	1	1	1		1	, i	-	1	-	-		J)
8, Burns and Scalds	Q1	1	*	+	:	-	-	1	1	1	1	C.	1	1	01	1		1	00	1	-	1	60	01	- 1
4 Poison	1	-	1	1	:	-	1	04	1	1	1	1	ı	i	į	-		-	-	1	Oi	20	1	4	1
6. Drowning	75	1	-	1	4	-	1	01	1	-	1	_	-	1	*	-		1	00	7	1	60	1	16	1
6. Suffocation	İ	1	1	1	1	1	-	1	1	1	1	1	1	1	-	1	1	1	1	1	1	-	1	G#	1
7. Otherwise.	Ħ	t	1	,	-	+	1	-	1	-	01	60	1	1	60	1		-	63	1	60	-	i	*	1
VOrden 2. In Battle	İ	1	i	+	1	1	1	<u>i</u>	4	i	1	i	1	1	1	1	10	1	- 1	1	1	1	1	-	1
VOrder & Homicide	-	1	1	$^{+}$	1	1	01	1	4	1	1	-	1	1	-	1	- 0 - 1,	1	1	1	-	1	-	-	
1. Marder	-	1	+	1	+	1	61	1	1	1	1	_	1	1	1	1		1	1	1	1	1		-	1
VOxden 4. Suicide	1	i	Ť	÷	+	1	п	1	4	1	i	10	1	1	*			1	- 1	60	-	-	*	14	
1. Wounds				_	4		-	j	4	J			j		1				7				60	١	i

9. Polson	1	1	1	_		-	1	1	1	*	T	÷	1	-	1	_		1	60	:		-	-	;
s. Drowning	1	T	1	,	1	1	1	1	1	1		÷	-	1	1	100		;	i	1	114	- 1	-	į
4. Hanging	i	1	1	-	i	1	1	1	1	- 1	1	1	1	-	-			+	1	1	П	;	1	i
5. Otherwise and not Specified	1	1	1		1	1	;	1	1	1.0	:	10	-			-		;	I		11	:	12	į
VORDER 5. Execution	1	15	-	- '	- 1	- !	- 1	130	1	-1	1	1	1	1	- 1			1	ì	1		- 1	- 1	į
1. Hanging	1	;	1	1	1	1	1	1	1	345	-	+	1	1	1			1		i	1	:	1	į
VORDER & Violent Deaths not In-	- 1	1	- 10	61	60	10	-	- 1		91		10	1		6			QI	20	63	01	60	2	:
UNCLASSIFIED	-	1	9	-	1	60	1	1	1		1	-	1		9			-	1	-	1	C.	65	:
J. Hemorrhage	1	1	-	,	1	-	- 1	-1	1	1	1	1	1		64			-	Ť	1	1	1	4	:
2. Inflammation	-	- 1	1	7	1	C4		- 1	1			1	1		_			=	1	-		64	16	:
2. Otherwise	1	;	1		1	-	1	1	1	i	1	+	1	-	1		. –	-	i	1		:	20	į
Causes not Specified	10	80	40	25 S	8	21	9	1	01	13	1	8	80	- 70	28		88	90	22	11	16	27	281	•
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	SO and over.	10 231	193		
	73 to 80.	33 436	264 246	9 10	-
	70 to 75.	517 462 433	202 26	20 16	
1	65 to 70.	17 46	287 29	30 17	-
AGES IN PERIODS OF YEARS.—1877.	°29 01 09	17.0	57	00	
ES.	.00 os ca	387 477	224 201 212 257	175	
(EX	.66 ot 06.	298	102	191	
100	45 to 50.	102	204	178	
DS	40 to 45.	265	881	504	
MIO	35 to 40.	5	198	214	Ī
PE	.68 of 08	450	203	256	
NI S	25 to 30.	549	233	310	
GE	20 to 25.	572	258	314	Ī
4	12 to 50.	516	218	298	
	10 to 15.	387	188	100	
	.01 o1 d	718	380	337	
93	Under 5.	5207	2855	2311	**
TOSE	1873.	14258	7651 2855 380 188 218 258 233 203 198 188	6590 2311 337 190 298 314 316 256 214 204 178 161 175 250 230 170 169 190	
DEATHS FROM ALL CAUSES.	*#281	12919 12576 11990 12500 14258 5207 718 387 516 572 549 450 412 382 402 362	9999	5804	5
YEARS.	,678f	11990	6448	2484	G.
FRO	.8781	12576	6756	5761	200
THS	72281	12919	6827	0709	
OEA	Unknown.	36	623 27	527 27	
-	December.	1155			
	November.	1000 1135 56	920	200	-
	October	1400 1221	634	585	•
	September.	1400	746	648	
1877.	August.	1559	819	738	-
CHS,	July.	875 1040	299	471	1
Моктня, 1877.	June.	-	466	407	1
-	May.	976	495	475	
	April.	990 978	549	435	1
	March.		525	457	•
	February.	843	427	415	1
4	January.	766	408	355	
	SEX.	Total 766	Males 408	Females . 355 415	

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TABLE XVII.—CONTINUED.

				X	MONTHE	H	-	1877.				_			H	YEARS.	<b>.</b>					7	5	2	M	M	BIC	DB	8	7	AGES IN PERIODS OF YEARS.—1877.	, E	ñ	ðo.	Ė	ï.
SEX.	January.	February.	March.	May.	June.	July.	Janguat.	September.	October.	November.	December.	Unknown, I	.7781	1876.	.6781	- 1	*#ZST	.8781	1872.	CAUSES OF DEATH.	Under 5.	1 10 to 15.	1 10 10 10.	20 to 25.	25 to 30.	30 10 22	.04 of 68	1 40 to 45.	45 to 50.	.66 to 55.	55 to 60.	60 to 65.	1 65 to 70.	1 70 to 75.		75 to 80.
Females		÷	- 1	- !			:	1	- 1	1	÷	i	İ	1	1		-	1	1	Abortion, Attempted	i	- 1	-:	1	1		- 1	:	- 1	-:	:	t	:	1		- :
Females	:	i		-	-:	-	- 1	1	-	02	-	1	9	1-		10	9	9	10	10 Abortion	i	+	-	-	=	-		01	- ;	:	;	÷	-	- 1		- ;
Males	:	-	÷	- 1	-1	- (	-1	7	1	1	1	i	i		-		r.	1	1	Abscess of Abdomen	i	÷	+	- 1	1	- :	_ !	;	:	-:	- ;	-	:	- :	- 7	- 1
Females	- 3	i	+	-	- (	5.J	1	1	1	1	÷	÷	1	1		-	1	1	1	, , , , , , , , , , , , , , , , , , , ,	i	÷	+	+	+	!	1	- 1	- 1	-1	i	i	+	+	- 1	- ;
Males	1	i	+	-!	- 5	-1	- 1	1	ì	i	÷	1	1	1	1	_	1	-	-	Abscess of Ankle	i	1	-	1	1	- 1	- ;	.;	:	;	÷	i	- 1			- ;
Males	- 1	i	- 1	-	- 1	- ;	-	1	i	1	-	-	-	Ì	1	_	i	1	1	Abscess of Armpit and Thigh	i	1	-	_!	+	- !	- 1	- :	:	:	:	1	+	_	1	- ;
Females		ï		- !	. :	7	1	1	1	Ť	1	i	1		1	+	1	1	1	Abscess under Arm	1	- 1	- 1	-!	-1	-:	_:	- 1	1	- 1	- 1	i	- 1	- 1		·
Males		i		_			1	1	i	i	i	÷	- 1	1		-	01	1	7	Abscess of Back	i	-:	- :	-:	-!	-:	1	_ :	- ;	-	- 1	÷	- ;	- 1		- ;
Males	Ť	İ	+	-	. 1	- 1		:	H	i	Ť	- 1	-	1	1	÷	1	1	1	Abscess of Bladder	1	÷	-!	-	- 1	- 1	1	:	- 1	1	- 1	1	-	:		- 1
Total	-	i	+	- !	- 1	104	- 1	1	T	-:	63	1	10	CS	_	-	i	-	60	Abscess of Bowels	1	-:	-:	_	-	01	;	7	1	i	-	:	-:	- 1		- 1
	1	÷	÷		- 1	- 1	1	1	1	:	-	:	-	94	1	-!	- 1	1	00		1	-	- 1	- 1	- 1	-	- 1	- 1	- 1	1	i	1	-	-:		- :
88	77		_	_	- 1		1	-	i	:	=	1	4	1		-	:	1	1		-	-	-:	-	:	-	- 1	- ;	1		-	÷	+	-		- ;
- Anna	i	t	÷	-:	- 1	- 1	1	i	i	-	Ť	i	1	00	1	-	-	- 1	01	Abscess of Brain	i	1	- 1	*	-!	- 1		- 1	- 1	1	1	1	+	-		-:
4		- 1	+	-	- }	- 1	-	1	1	i	÷	1	i	ı	1	+	1	1	7	Abscess in Face or Cheek	i	-	- ;	- :	- !	-:	-	-4	:	1	;	÷	- :	1		
		÷	+	4	1	:	1	1	i	i	i	÷	i	i	1	1	_	1	-	Abscess, Femoral	i	:	- ;	- 1	:	:	-	1	- 1	1	i	-	- :	- 1		
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TABLE XVII.
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81	7.12		.878	*725	.075.	.925			-225	1	ovember. nknown.	ctober. ovember. ecember. nknown.	eptember. ecomber. ecember. nknown. nknown.	ngust. eptember. ecomber. ovember. nknown. nknown.	ndy.  special control of the control	nite, nly, nguet. eptember. ovember. nknown.	ay.  and  and  and  and  and  and  and  an	eptember, ecober, ovember, mknown, nknown,	pril. pril.	hrd. hrd. hrd. hrd. hrd. hrd. hrg. hrg. hrg. hrg. hrg. hrg. hrg. hrg	pril. pril.
Abscess Internal   Abscess near right Kidnoy   Abscess of Kidneys   Abscess of Limb   Abscess of Neck   Abscess of Neck   Abscess of Spine   Abs	1 =	1 1	1 1	1	1	1 1	1	1 01	1 01	n i	al:	1   64 0   1 0   1		a   c   c   c   c   c   c   c   c   c							
Abscess of Kidneys   1   Abscess of Kidneys   1   Abscess of Limb   1   Abscess of Limb   1   Abscess of Neck   1   Abscess of Neck   1   Abscess of Spine   1   1   1   1   1   1   1   1   1	Abscess, Interna	1	_	1	i		÷	-		1	1	1	1	1 1 1 1							
Abscess of Kidneys   1   Abscess of Limb   1   Abscess of Limb   1   Abscess of Neck   1   Abscess of Spine   1	1 Abscess near rig	;	1		1		1	1			1	1 1	1	1							
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1 Abscess, Lumbar   1   1   1   1   1   1   1   1   1		1	1	1	-	1	-	1			1	1 1	1								
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Females 1 1 1 2 1 1 8 4	49	9	13		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Males	1	1	H	Albuminuria	
Males	:	-	1	Albuminuria, Chronic	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Males 2	-1	1	1	Alcoholism	
Males	- 1	-	-	Amaurosis	
Males 1 1 1 1 1	01	9	60	Amputation of Leg	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Males		1	1	Amputation of Limb.	
Males	1	-	*01	Amputation.	
Females	- 1	-	1		
Males	1	1	O1	Anæmia	
Females 1 1 2	F	61	04	*	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Males	п	-	ì	Aneurism of Aorta.	
Males 1	1	1	ì	Aneurism of Heart.	
Females	п	1	1		
Males		-	-	Aneurism	
Males 1 1 1	04	1	1	Angina Pectoris	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Total 7 5 3 11 8 5 5 9 7 12 5 8 85 107	8	68 81	20	Apoplexy	8 8 8 1 6 11 7 10 16 15 6 2
Males 4 3 8 5 3 4 5 6 9 4 5 66 61	21	15 49	43		2 2 8 1 1 9 2 6 12 13 4 1
Females 3 2 3 3 2 1 4 1 3 1 3 29 46	88	8 32	27		1 1 2 4 2 5 4 4 2 9 1
Females	1	1	-	Arm, Indam. in	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Total 1 2 3 1 2 2 2 2 4 3 24 23	50	20 21	25	Asthma	. 1
Males 1 2 1 1 1 2 1 1 8 8 16 11	21	13	11		1 1 1 1 3 1 1 2
Females 1 1 1 1 1 1 1 . 8 12	00	8	Ħ		[

## VITAL STATISTICS OF MICHIGAN, 1877.

TABLE XVII.—Continued.—Specified Causes of Death.

Males   March   Marc		à		ACED IN		Tenton of the second	:
	1876. 1876. 1876. 1878.	.grsi 20	CAUSES OF DEATH.	Dader 5.	20 to 25, 25 to 30, 30 to 35, 35 to 40, 40 to 45,	65 to 56, 55 to 66, 55 to 66, 60 to 65,	70 to 75.   75 to 80.   80 and over.
	1	Billary	Billary Calculus				
	4 6 1	1 Birth, I	Birth, Injury at			: : :	1
	64	2	***************************************			1 1 1 1 1 1 1	1
	1	Birth,-	Birth,-Instrumental Delivery	-		1	1
04	41 34 28 21 16	18	Birth, Premature				1
# # ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	20 17 13 10 10	10		06		1 1 1 1 1	1
	18 16 15 11 6	90		16			1
	3 1	= :		1	1 1		1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	Bite of Insect	Insect	1			1
	1	Bladder	Bladder, Catarrh in				1
Males	6	2 Bladder	Bladder, Disease of				
Females		- 1	"	-	1 1 1 1		1
Total 8 1 1 1 1 3 1	11 6 14 7 9	6 Bladder	Bladder, Inflam. of			2 1 1 1 - 1	8 1 1
Males 2 1 1 1 1 2 1	9 211 6 8	. 9	=			1 1 - 1 - 1	8 1 1
Females	2 1 3 1 1	:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 1	-	1-1	1
Males	1	Bladder	Bladder, Paral. of		1 1 1		
Total 1 1 1 1 1	3 4 2 1	Blood Polson	olson	1 1	1 1 1		
Males 1	1 1 1 1		11	1	1 1 1		1
Females 1 1 1	9 3 1	•		1		1	-
Females		Bones, 1	Bones, Disease of	1	1 1		1
Total 1 5 1 1 1 1 4 6 1 2 1 2 1	23 22 10 28 15	_	15 Bowels, Consumption of	8 11 11 11	111111	. 2 . 3 1 1	1 2

	1	-	0		3	1	51	Ĭ	1														f	:					:	:		ï	:	;	;	-	7	
Females	1 :	1	1 10	-	-	-	4	04		H	12		10	_	-	-	=		=	_	;		12	=	-	_	H	-	-	- 1	-	-1	00	-	-	-	-	:
rotal	4	64	9	-	100	0	9	н	1	38	98	-	40		57	34 Bowels, Disease of.	wels	Ď.	BOAB	10 0			19	-	24		H	-	-	:	-	63	1	н	H	-	:	ຕ
Males	:	-	00	-	00	н	4	1	C9	80	81	01	6		55	50		Ā	3	=			=	1	-	-	H	:		- :	7	99	- 1	:	1	H	- 1	61
Females	-	-	70	1	- 1	4	01	-	•	. 16	F	-	91 6		56	7	=	i	:	:			00	-	-	-	- 1	-	:	-	:	•	:	7	-	- 1	:	_
Unknown.	:	- 1	1	1	-:	1	1	1	*	1	- 1	_	-	1		1	=	-	:	=			- 16.	1	1		•	-1	+	1	1		1	1	1	-	:	:
Females	1		1	1	1	;	:	1	- 1	1	i	1		1	- 4	Bo	Wels	In.	pac	tion	Bowels, Inspaction of		-1	i	1	1		Í	÷	1	4		1	1	1	1	4	;
Total 1	14 14 18		7	17 12		19 35 3	32 24		16 17 3	1 226	3 239	9 218	802	986		234 Bo	wels	II.	flan	٥٠.	Bowels, Infam. of		78	23	22 15	2 10	60	23	0	6	6	0	10	00	*	00	60	**
Males	7 11	61	2 10	7 0	6	55	10 0	10	=	120	126	8118	8 17	152		105	:		:	:			46	9	12 10	9 0	10	90	60	61	9	9	9	00	-	94	04	:
Females	7	Ф	10	-1		10 13 1	13 15	9	9	1 97	H	1 100	0	134		129		-	:	:			65	9	10 5	*	00	10	9	-	65	4	*	1	00	-	-	••
Unknown	1	1	+	:	_1	1	- 1	- 1	- 1	1	**	G4	- 4	1	-			•	:	=			- 1	Ť	1		•	1	÷	1	-1	· V	:	1	1	- 1	4.	:
Total	1		1	1	_:	1	:	1			01	G4	:	1		Bo	wels	7	nta	3811.8	Bowels,-Intussusception.		100	1	24	. *		1	;	1	1	- 1	1	;	1	:	-	:
Males	1	.;	1	-	-1	1		1	,	-	-	-	-	i	_	-	:			=	•		1.10	-1	-		1	1	:	1	- 1		1	- 3	- 1	:	ī	:
Females	1	-1	1	:	:	-	:	1	-	-	1	1	- 1	1		1	=			:	٠		10.	1	1		A	1	-	-	-1	*	:	i	1	- ;	1	;
Unknown.	1	T:	1	1	-1	1	-1	1	-1	1		-		1	1	- 1	:			:	٠		oti	i		- 3	- 6	i	+	1	1	- 1	:	1	1	1	1	:
Males	+	-	1	1		1	-1	1		1		-	1			Bo	wels	N.	ura	Igia	Bowels, Neuralgia of		M1	i	- :	1.	TX	1	+	1	1		1	i	÷	1	1	;
Males	1	. 1	1	1	1	1	1	- 1	•	-		-	01	_	9	Bo	Wels	9	stru	ıcti	3 Bowels, Obstruction of			i	:		•	i	+	1	- 1	•		i	1	:		_;
Females	:	-1	1	- 4	1	i	- 1	1	-	1		_	-	_	Qŧ	-	:		:	_				Ť	٠,	-5		- 6	1	1	1			4	Ť	1	:	:
Males	1	-1	1	1	L	+	1	1		1	-	01		1	1	2	Wels	Pa,	Iral.	of.	Bowels, Paral. of			i	- 1		,	1	1	1	1	•		1	i	1	1	:
Malos	-	- 5	1	1	1	i	. :	- 1		-	1		-	1	1	A	weis	, Pe	rfo	Ta ti	Bowels, Perforation of		1	÷				1	1	1	1	-		İ	:	7	1	1
Males	1	- 1	1	1	L	Ť	:		- :	-	-	1	- 1	1	- 1	Ä	Bowels, Stricture of.	, 8t	ricti	ure	of			ì		-	•	:	+	1	1	. 1		i	-	:	1	:
Males	1	1	1.	1	1	1	1	1	. 1		91	_		00	00	1 1	Wels	Б,	Cen	tlo	Bowels, Ulceration of		*1,1	i			•	1	;	1	1	-		:	1	-	:	:
Fomales	1	- 1	1	1	1	Ť	1	1	,	1	1	-	01	100	1	.1	:		=	_	;			Ť		- 1		1	1	1	1	- 1		1	1	1	1	:
Kales	1	:	7	1	-	÷	:	1	1		1	1			01	B	ato, (	30 E	pro	<b>88</b> io	Brain, Compression of			i	Đ,	9.	77	1	+	1	1	1		4	1	1	1	:
solue	:	1	;	1	1	i	1	1	:	-	1	1	1		-		:		3	_	:	ŀ	-	÷		- 1		- ;	+	1	1			1	1	- 1	1	:
7	. 1 1	-	1	-	-	1	-	;			10	1	1	1	1	B	aln, (	3on	3a8	lon	Brain, Concussion of		61	:		- *	•		-	:	1	- 1		i	i	1	1	-
The second	-	-		-	-			1	1	0		C					:		:				G			11.5				•			1					-

TABLE XVII.—Continued.—Specified Causes of Death.

				Ä	Момтив	riis		1877.						Ä	YEARS	ي.		4.7				¥	88	Ages in Periods of Years.—1877.	4	ERI	ã	Ö	₽	¥	R8.	Ĩ	877.			
SEX.	January.	February.	March.	April.	June.	.Tint.	August.	September.	October,	November.	Unknown.	*22ST	'928T	18781	1874.	18781	1872,	11	CAUSES OF DEATH	Under 5.	.01 01 6	.dl ot 01	10 10 20.	.62 of 02	25 to 30.	30 to 35,	55 to 40.	.08 os 65.	.66 to 65.	.00 of 66	.60 to 65.	1 65 to 70.	70 to 75.	75 to 80.	So and over.	Пркпомп,
emales	- 1	1		1		-1		-	1	1	- :			_ !	- !	1	1	_	Brain, Concussion of	1	1	-	-	1		1	-	1	- 1	1	- 1	- 1	-	i	-	
rotal	6	6	0	9 13	9	91	19	-	17	8 13	-	153	3 175	-	106 14	145 17	178	192 B	Brain, Disease of.	- 00	98	- 60	7	00	-	10	9	60	00	-	10	10	00	60	:	-
fales	9	*	-#	7	40	=	0	=	9	10	;	2	101	_	48	61	11 16	110	, , ,	7	88	2	01	-	-	04	-	-	01	-	60	-	69	01	-	
remales	*	10	9	01	60	10	10	9	-	10	10 1	-	17.		28	99	81	68	,, ,,	60	38	01	9	7	93	00	-	68	63	:	61	-	-	H	- 1	
Total	- 1	1	+	1	01	- 1	- 1	-	i	-	-	_	1	1	- 1	1	1		Brain, Effusion of	1	!	64	;	į.	.;	-	÷	-	- :	- 1	1	1	• :	1	-	
fales	- 1	1	÷	+	04	1	1	1	1	:	+		-	- !	1	1	1	:	,, ,,	1	+		-1	1	1	1	1	-:	- ;	- 1	- ;	;	1	-	÷	
remales	- 1	1	i	1	1	- :	:	-	-	1	-		01	1	-1	- :	-1	-		1	1		- 1	- 1	:	-	i	1	:	- 1	:	- 1	1	-	i	
otal	23	18 16	99	23 20	0 20	8	4	=	17.2	23 17	7 1	1991	1 275		232 26	261 3	333 3	330 B	Brain, Inflam, of	SE .	184 26	6 9	11	13	12	10	7	01	9	03	*	00	04	C4	-	
In 111	=		9 11 12	01	14 11 14	=	81	55	=	10	3	154	148	1.0	132 11	114 18	195 18	182	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	S	90 14	9	4	*	9	-	-	-	-	-	60	61	-	CI	1	- 61
females 12	12	0	- 10	=	19	91 6	8	50	9	13 9	9 1	137	7 127		99 33	117 1	138	148	, , ,	-20	85 15	10 4	1	00	9	-	1	-	2	64	-	-	-	1	-	_
Jnknown.		- 1	÷	1	1	- 1	:	- 1	1	- 1	- !	i	1		-	- 1	1	-		- 1	1		- 1	- 1	1	i	-	+	- 1	- 1	:	1	-	1	i	
fales	- ;	1	÷	+	1	- 1	:	1	- 1	1	- 1	-	1		1	1	1	. H	Brain, Injury of	-!	+	- 1	- 1	-1	- 1	ì	1	+	- 1	1	1	1	1	:	1	
Potal	;		1	+	+	-1	1	1	i	1	-		OI .	20	7	00	-	B	Brain, Paralysis of	i	-	1	- !	-1	;	i	i	-	- 1	- 1	-	:	1	1	i	
Males	1	-	÷	÷	1	- 1	- 1	- 1	i	1	-		-	-	-	Ç1		H	, , , ,	1	÷	+	1	1	1	1	1	+	-	1	-1	1	1	1	1	٠, ٠
Females	1	-	i	+	1	:	1	1	1	1	1	-	_	69	63	-	:	-		1	1	;	1	4	1	1	. 3	+	1	1		1	-1	i	- 1	
Kales	1	- 1	-	÷	+	- 1	:	1	Ť	÷	+		_	1	1	- 1	+	B	Brain, Rupture of	1	1		1	;	-	T	i	÷	-	1	- 1	1	1	1	-	
Fotal	7	4	C4	OI.	-	-	10.5	9	10	=	61	8		30	65	12	19	17 B	Brain, Softening of	1	+		1	=1	-	-	-60	-	01	*	00	4	09	01	-	
Kales	-	00	69	D4	-	-	-	*	*	M	61	61	04	10	65	61	21	80		-	+	-	1	-	-	:	O1	-	01	-	64	03	04	04	-	
Females	1	-	Ť	÷	1	-	-	24	=	÷	÷		_	1	7	60	-	6		+	÷	1			3	-	-	=	-	1	-	-	-	1	1	
Kales	:	1	i	Ť	1	+	- 1	1	Ť	+	+	1	_	-	1	,	+	1	Breast Disease	1	÷	- 1	1		;	:	1	+	-	1	.:	:	:	-	i	
Fomalos		-	=	-	-1	⊣	-			۲,	-	_	=	_	٠,	4	-	-		_	-	-	_	1		-		-	-	_3		3		-		

	1	1	1	-	- 1	- 1	- 1			i	i	I	-	1	-	64		m .	Bronchitis, Capillary	Bronchitis, Capillary	apil	lary				1	- 1	- 1		- 1	- 6	-	- 1	- 1				. :	: :
Females	+	-:	- )		:	1	- ;	- ;	- 1	i	+	1	1	- 1	-	63		-			=		į	•	- 4	:	:	_	- 1		:	:		- 1	-	- 1	-:	_;	_:
Total	-		T	i		-	1	1	-	Ť	. ;	83	1	01	í	04		2 Br	Bronchitis, Chronic	18,0	hron	nie			1	1	-	i	- ;	:	;	-	-:	-	7	1	-	:	_:
Malos.	÷	-	1		- :	1	- 1	:	-	i	. 1	64	1	C4	. 1	_	-	64	:		=	•			1	- 1	- 6	i	1	- 1	:	-:	-1		-	- 1	- 1	:	<u>:</u>
Females	1	- 1	-1	1	+	-	- 1	. 1	:	÷	:	-	1	1	1	-	1	-	=		:	•	•		1	1	1	i	1	:	- ;	+	-	-	1	1	-	- 1	<u>:</u>
Total	4 6	60	04	*	1	G.	01	-	90	-60	1	39	4	4	60	18		28 Br	Bronchitis	61	i		•		1	20 1	18	60	-			:	:	)	н	00	90	60	_:
Males	-	61	69	4	+	04	7	:	00	91	-	5	27	19	139	=		22	:			1	į		1	21	- 3	;	1	20	1	1	:	- !	- 1	-	61	-	_ :
Females	60	60	;	÷	1		-	-	43	60	- 1	18	15	53	13	-	_	80		:	1				-	00	- 1	00	-	:	,	i	:	- 1	-	91	-	01	:
Males	+	1	i	÷	-:	- 1	;	:	- 1	i	+	1	1	-	- 1	- 1	1	B	Brutal Treatment.	reat	men	4			-	1	- 1	:	1	:	- 1	-	:	- 1	i	-	-	:	_:
Females	1	:	- 1	÷			- 1	1	. 1	- 1	÷	1	-	1	1	1	- 1	B	Bullet in Brain	Bra	in			1	:	- 1		i	:	:	- 1	1	:	1	1	- 1	:	ः	_:
Total	01	-	0)	01	01	-	1	*	00	10	1	8	4	38	88	52		30 Bt	Burns	1	1				1	133	4	-	-	01	-	-	- 1	:	i	+	-	:	_:
Males	-	-1	H	-	Ok.	:		-	- 1	-:		9	16	13	13	61	=	-		-	1	1	į		;	-	1	-	+	- 1	- 1	-:	- ;	1	1	-	1	. ;	_ :
Females	-	-	-	01	01	-		00	90	10	1	61	53	23	56	83		61	2		1	4			1	6	4	1	-	2	н	-	- :	1	i	- 1	-	:	<u>:</u>
Unknown.	+	1	:	+	- 1	;	- 1		:	-	÷	1	Q1	-	1	i	1		:	-	-				1	- 1	- •	-	:	1	- 1	<del>-</del>	-:		1	-	:	- ;	:
Females	+	1	-	÷	-	1	;	-1		+	:	-		1	1	- !	1		Calculus, Hepatic	, He	atic				-	- 1	•	1	+	- !		-	+	1	-	+		:	_ :
Males	-1	-1	1	- 1	-		_1	- 6	1	i	1		1	1	1	-	1		Calculus, Renal	, Rei	181	1			1	- 1	•	i	1	1	. ;	1	-	1	1	-;	- 1	:	_:
Males	+	4	i	+	1	- 1	1	- 1	- 1	-	÷	1	1	-	1	1		Ca	Cancer, Lupus	Lupi	8	1			1	:	- 1	i	1	4	- ;	+	:	;	1	-	- :	- 1	_:
Females	+	:	1	+	÷	- 1	- 1	- 1	1	1	-	1	1	1	i	į		Ca	Cancerous Ossification of Stomach	18 08	since	ation	n of S	tom	ch	:	•	1	1	- 1	1	1	-:	1	1	- 1	- 1	- \$	_:
Total	10 13	23	13	2	24 36	83	52	10	56	2	1	265	241	202	188	171	-	S	130 Cancer	1	1	- 31	į		-	13	-	-1	4	2	53	4	26 31	32	65	31 27	7 14	133	-
Males	9	=	(0)	90	7 20	0	=	-	77	2	-	124	118	27	30	75	S	60		1	1				1	1	-	1	01	24	10	60	7 10	10 12	12	17 21	00	0	•
Transles 10	01	22	=	6	17 16	7	H	10	21	0	1	111	123	130	104	36	7	-	:	-	1		į			9	=9	:	01	00	30	=	19 61	50	#	4	9 9	4	07
1	7	-	=	÷	-	*	0	100	00	60	1	30	33	33	31	49	69		Canker (Noma)	Nom	a)				1	8		1	- 1	1	- }	+	1	1	-	1	- !	- 5	_ :
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			4	÷	÷	-1	- 1	:	1	÷	1	-	1	1	- 1	-	1	S	Capsule, Renal	Ren	al	1			1	1	**	1	- 1	-	:	1	1	1	i	1	:	:	_:_

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TABLE XVII.
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		l		A	Mont	TB	вв, 1877.	Ë.							A	YEARS.	80				_		Ā	3.88	×	P.	M	101	Ages in Periods of Years.—1877.	Þ	M	A H	ļ	187	.:		
SEX.	January	rebruary.	March,	May.	June,	July.	August.	September.	October.	Хоуетрет.	December	Unknown.	7191	1816,	1875.	_	.1874.	18781	1872.	CAUSES OF DEATH.	Under 5.	,01 of 6	10 to 12.	15 to 20.	\$ 20 10 25,	.08: 04 62	1 20 to 32.	85 to 40.	1 40 to 45.	45 to 50.	50 60 60	,60 03 09	.05 of dir	'67 01 UT	1 75 to 80.	SOand over	Unknown.
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TABLE XVII.—Continued.—Specified Causes of Death.

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6 3 3 2 3 1 2 2 31 65 64 66 96 87 11 1 2 1 4 3 2 1 2 1 2 2 2 3 8 4 2 3 1 1 4 4 5 1 1 1 3 1 1 3 1 1 2 1 2 2 2 3 8 4 2 3 5 3 1 1 4 4 5 5 1 1 1 3 1 1 1 3 1 1 1 2 1 1 2 1 2 2 2 3 8 4 2 3 5 3 1 1 4 4 5 5 1 1 1 2 1 1 1 3 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1	Total			-	00	0	9	1~	9	01	10	1	89	98	107	104	158	150	Erysipelas.	•	61		04	-	:	*	10	-		-	00	92	00	9
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Explosion of Boiler.	Females	01	01	10	2	01	03	40	99	-	*	1	37	5	43	48	62	63		1	16	-	*	00	:		-		-	;	60	-	-	C4
Explosion of Kerosene	Males	:	1	÷	÷	_	1	1	÷				1	1	40	1	;	01	Explosion of Boiler.	1	1	- 1	1				_		- (	_	+	1		+
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TABLE XVII.—Continued.—Specified Causes of Death.

				7	MOM	твв, 1877.	-	187	١		1				YEARS.	RS.					5	AGES IN PERIODS OF YEARS1877.	89		i ii	6	8	8	Ä	3	ģ	Ī	ΙË		1
SEX.	January.	February.	March.	April.	May.	July.	August.	September.	October.	November.	December.	Unknown.	.7781	1876.	'92ST	*#Z8I	1878.	.g78f	CAUSES OF DEATH.	.dadorā.	5 to 10.	10 to 10.	20 to 25.	25 to 30.	.68 of 08	.04 o3 c8	40 10 45.	45 to 50.	.66 01 06	'09 01 99	60 to 65.	.07 03 68	70 00 75.	75 to 80.	Unknown.
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Males	60	- 1	93	01	-	-	-	:	6.5	94	9	1	81	17	54	18	8	64	Falling Tree	1	:	- 61	4	4	20			- 1	-	-	Q4	-	i	1	-
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Males	- 1	1	-	;	61	-	4	61	-	н	63	1	18	5	83	88	85	55		00		-		01	1	-		1	4	.04	-	:	-	-	. 14
Females	1	- 1	i	:	QI	-	00	90	-	64	00	7	15	25	6	88	64	30		60		-	-	-	_	- *	_	1	94	64	04	:	-	01	-
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• Includes 10 from	3	9	,   g					ă	1 8	. B	Worm Fits", and 2 from "Worm Fever."	B F 6	Yer					-							.

. Includes 10 from "Worm Fits", and 2 from "Worm Fever."

of Death.
Causes of
-Specified
CONTINUED
XVII.—(
TABLE 2

			' '	Ko	Months,	18, 1	1877.	_					YEARS						·	AG1	188	<b>A</b>	BR	00	0	PA PA	AGES IN PERIODS OF YEARS,—1877.		<u>1</u>	77.		
SEX.	January.	February.	April.	May.	June.	August.	September.	October.	November.	Unknown.	.7781	1876.	.8781	7/81	2581	75781	CAUSES OF DEATH.	Under 5.	15 to 10.	1010101	1 12 00 50.	1.25 to 30.	30 (0.35)	10 10 12	.04 01 04	50 to 55.	1 25 to 60.	1 60 to 65.	1 65 to 70.	75 to 80.	NO and over.	Прикрочр.
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Total	:	_ <del>:</del>	_		$\frac{\cdot}{\cdot}$	<del>-</del>		<del>-</del>	<u>-</u>	_:	•		<b>-</b>	•		109 F	109 Fever, Spotted	8	=	<del>:</del>	<del>-</del> :			<del>:</del>	<del>-:</del>	_ <u>;</u>	=		<del>-:</del>	<u>:</u>	:	:
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Females	89	8 15		7 13	-	- 13	8	= =	- <del>5</del>		212	193	_ 8	204	293	35	, ,	23	12	- 8	88	12	- 60	-	21	51	9	7	9	-	-	64
Females	;	-:			$\frac{\cdot}{\cdot}$	<del>-:</del>		<del></del> :	<del>-</del> ;	-	-	i		<u>:</u> :			Fever, Typhold Rheum	-			$\div$		Ī	<del>-</del> ;	<del>-</del>	_:-	:	÷	<u>:</u>	<del>:</del>	_:_	_:
Total	$\frac{\cdot}{1}$	<del></del>	三	÷	<u> </u>	<del>-</del> -		_	_	<u> </u>	-	9	$\frac{1}{1}$		-	:	Fover, Typho-malarial		_	÷	$\div$	-:	_	<del>-</del> ;	<del>-</del>		I	÷	- <u>:</u> -	–÷	_:_	_:_
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Males	_:	$\div$		÷	÷	<u>:</u>		÷	<del>-</del> ÷	-:	:	_	-	<del>-</del> -	$\dot{\dashv}$	<u> </u>	Fever, Yellow				$\frac{\cdot}{\cdot}$	<u> </u>		$\div$	<u>:</u>	<u> </u>	1	÷	<u>:</u>	÷	<u>:</u>	:
Total	Ŧ	=	_	•	-	<u> </u>	•	•	- 8	:	2	8	5	- 16	<u></u>	- <u>F</u>	Fever (Unspecified)	왊	:	•0	<del>-</del>	61	-	9	<del>-</del>	-	_	•	-	61		:
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## CAUSES OF DEATH, SPECIFIED.

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Males	:	+	1	÷	+	-	. 1	-	- 1	1	1		1	1		i	Fracture of Pelvis	-	1	-	Ť	1	1	7	:	i	- 1	1	1	
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Yemales	1	41	i	÷	1	1	1	i	1	1	1		-	- 1	11	-		1	1	1	÷	-	1	1	1	;	+	:	1	
Males	÷	1	- 1	-	1	1	1	÷	1	1	1	-	~	-	01	64	Fracture of Spine	-	1	1	Ť	1	1	÷	-	Ť	+	1	-	
Females	1	1	:	1	1	1		i	1	-	-		1	-	,	-		1	1	1	÷	1	:	1	+	- 1	1	- 1	1	
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D.—Specified Causes of Death.
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TABLE XVII.—CONTINUED

				_	MOM	H	тив, 1877.	8	11.								YEARS.	œj					•	4	AGER IN PERIODS OF YEARS.—1877.		×	PR	K	8	8	<u> </u>	X	A B	l.	8	E		
SEX	January	Pebruary.	March.	l April.	May.	Jane,	Sing !	vagner	September	October.	November.	December.	Unknown.	.7781	'928t	-	1875.	***************************************	1873.	.572	CAUSES OF DEATH.		Under 5.	"2 to 10"	10 to 15.	15 to 20.	1 20 to 25.	'05: 03 92	'98 01 08	'09 01 98	. de 01 104	1 42 10 20.	l po to pp.	100 01 00 1	160 to 65.	1 50 to 70.	70 to 75.	1 75 to 80.	1 80 and over.
Males	- 1	1	-;	1	1	_			- ;	:	. :		:	1		-	-	H	1		Fracture		1		3	-	:	- 1	:	- 1			1	-	1	-	-	- 1	:
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Males		1		1	1	:	- 7	- 1	-:	1	- ;	- (	1	-	_	4	4	7	01	60	Freezing	-	1	:	1	- 1	- ;	4	-1		- 1	-1	- 1	1	+	Ť	÷	-	:
Females	1	1	- 1	- ;	- ;	1	+	-	1	1	1	1	1	1	1	71		-	-			1	1	:	-	1	-	7	- 1			1	1	-	÷	÷	i	1	- ;
Males	-	- ;	- 1	- 1	:	-1	:	- 1	- 1	:	:		- 1	-	:		-:	i	;	1115	Fright	1	1		- 1	1	1	1	- 1		-	- ;	:	÷	-	4	÷	1	-
Males	:	- 1	4	1	- 1	:	-:	:	- 1	1	- 1	1	- 1	1	1		-:	-	-	-	Frozen Leg	Ť	1	1	1	-	1	1			-	:	Ť	-	i	÷	-	1	-1
Males	:	-,-	:	1	:	1	1	-;	:	-:	:	- 1	- 1	1	-	1	- 1	-	1		Fungus Hamatodes	÷	1	:	1	Ť	- 1	1	- 12		- ;	- 1	- 1	1	:	<u></u>	÷	7	- 1
Males	:		-1	- ;		.;	- 1		7	. 1	1	1	,	1	_	-	:	1	- (	- 1	Gall, Disease of	i	i	- ;		-	4	1	-	- 1	;	1		1	- 1	-	÷	1	:
Females	_ :		- 1	1	- 1	- (:	1	- 1	- 1	:	1	3	-1	i	!	11	1	1	-	- 1	Gall-stone, Passage of	i	1	- ;			- 1	1	- 1	1	:	1	1	1	1	-	÷	-1	;
Total			:	-	;	- 1	- 1	-	:	-	:	-	:	7	_	-	,	+	-		Gall-stone.	1	- 1	-:			-	1	- 1	1	-		-	-:	1	21	÷	1	- 4
Males		- 10	- 1	- ;	- 1		- 1	-	1	1	1	-	1	g.	CI	-	- (	00	1	6		i	1	-:	10		1	1	- 1	:	- 1	:	-			QI		•	- 1
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Males			;	1	- 1		1	1	- 1	- (	- 1	- 1	;	1		11	1	1	-		Gangrene, Senile.	÷	1	:	:		:	-1	- ;		5	1	T	1	- 1	·		1	- 1
Females			:	- 1	-	:	:	:	:	;		- 1	:		-	. 1	1	j	1	-		·	1	- 1	1	-	-	1	:	:		1	1	÷	- 1	-			- ;
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Males			-	:	04	-	:	1	-	-	01	1		-	-	10	63	NG.	7	6		Ť	1	:		94	- 1	:	1	:		-	T	-:	-			-	50
Females			1	-	1	- 1	:	1	-		1	- ;	:		00	-	-	QI	*	91	=		-	:	1		- :	- 1	-			:	- ;	1	- 1	•		1	:
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Malos I I I	Gonorrhea	
Males 1	Gout, "Rheumatic"	1 1 1 1
Males	Gout	
Males 1 1 2 2 1 1 2 1 5 16 31 20 18 21	29 Gravel	6 6 6 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Females 2 1 1 4		
Males 1.: 2 1 6 16 11 18 6	22 Gun-shot	1 1 1
Females 3	J	
Total 1 4 1 4 2 1 1 2 1 17 15 17 9 13	17 Homoptysis 2 . 1 . 3 1 1 1 2 1 1 .	3 1
Males 3 1 3 2 1 2 1 13 11 13 5 5	14 1 3 1 1 2 1 1	
Females 1 1 1 1 4 4 4 8		
Males	Hay Pover	E
Males 2 2	Headache	
	Head Disense 3 3	1 1 1
Males 1 1 1 1		
Females 2 1 1 2	61	1 1 1 1 1
Males 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Hoad, Inflam, in	1 1 1 1
Females 1 1		1
Females	Head, Injury to	
Females 1 1	Head, Neuralgia in	1 1 1 1 1 1
Females 1	Heart, Cramps of	1 1 1 1
Total 21 26 33 29 36 37 28 32 28 36 37 31 3 367 320 289 320 315 3	301 Heart Disease 33 8 9 11 16 14 20 27 16 26 21 18	38 39 28 21 16 6
Males 10 13 17 17 18 23 14 17 16 11 17 19 2 194 185 154 175 173 11	155 " " 21 2 5 4 6 5 6 15 7 15 11 13	19 15 21 16 9 4
Females 11 13 16 12 18 14 13 15 12 15 20 12 1 172 135 135 145 142 1	146 " " 12 6 4 7 10 9 14 12 9 11 10 5	19 24 7 6 7 1
Unknown 1 1 1 1		
	Heart Disease, Organic	
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					7	ŝ	Month		1877.	Ŀ							YEARS.								4	9	AGES IN PERIODS OF YEARS.—1877.	ă	P	BIC	Ď	9	-	Ä	RB	J	183	-	
1   1   1   1   1   1   7   1   2   9   8   Heart, Enlargement of   1   1   1   1   1   1   2   1   1   1	SEX	January.	February.	March.	April.	. Luig	'oung					-		1.71					18/81	.2721	CAUSE	S OF DEATH.	Under b.					_	-	.01 o3 68	65 os 0\$.	45 to 50.	.50 to 55.	.00 es 66	.60 to 65.	.07 01 68	.37 63 07	75 to 80.	,1970 bпл 08
	fales	-	- ;	-			-		_					1	7	-	.01	G+	00	1	Heart, Enlar	gement of			-		-	_			17	-		- 1	-	-	.04		-
1   1   1   1   1   2   2   3   4   2   4   4   2   4   4   4   4   4	emales							_	_	_	_	_	_		1	г	CI	4	1	1		,	1					_	_			- 1	- ;	:	_;	_;	1	_!	
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1   1   1   1   2   3   5   1   2   1   Heart, Neuralgia of   1   1   1   1   1   1   1   1   1	emales		1						_	_	_			<del>-</del>	i	1	1	-	1	-	:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		_	_			-1			1	- 1	-1	- 1	_:	- :	:	-:	-
2 1 1	[ales	- 1	- 4				_	-	_	_	_	_	_	<del>-</del>	i	i	:	01	1	1	Heart, Inflam	ı. of	. 1	_	_	_	_			-	- 1	- 3	_1	:	- 1	. :	:	- ;	
2 1 1 1 9 9 6 1 2 1 Heart, Neuralgia of 1 Heart, Paralyais of 1	emales	-;	- 1					_		_	_		_		-	i	1	20	1	04		***************************************	_1	_			-		- 1		- 1			_:	1	- 1	- ;		
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1   1   1   1   1   2   1   1   1   1	ales	-	-						÷		_	_	_	- 1	60	10	63	-	04	-			i	- 1	_	_	_	_ >	- 1		- 1		- ;	:	_;	-	-	- 1	
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1   1   2   2   3   4   4   2   Beart, Paipliation of   1   1   1   2   4   2   Beart, Paipliation of   1   1   1   2   4   1   2   1   1   2   4   1   2   1   1   2   4   1   2   1   1   2   4   1   2   1   1   2   2   1   1   2   2	ales						1	÷	_			_	_	-1	01	н	-	-	-	1	Heart, Ossiff.	of	- 1	-	_	_	_	- ;			-		:	1	:	- ;	:		
1   1   1   2   2   3   4   2   Beart, Palpitation of   1   1   1   2   4   2   Beart, Palpitation of   1   1   2   4   2   Beart, Paralysis of   1   1   2   4   3   2   4   4   2   Beart, Paralysis of   1   1   1   1   1   1   1   1   1	emales	;		1	:		- :	- 1		_		_		1	i	i	i	-	1	1			- 1						•		:		- 4	- ;	:	;	:		
1 1 1 2 4 1 2 Heart, Paralysis of 1 1 2 2 1 Heart, Paralysis of 1 2 2 1 Heart, Rapture of 1 2 2 1 Heart, Rapture of 1 2 2 1 1 Heart, Valvaiar Dis. of 1 1 2 2 1 1 Heart, Valvaiar Dis. of	la1		1		:	-			_	_	_	_	_		04	91	99	*	*	04		ation of	-:	_	_		- 1		•		:		_;	- :		- :	-;		
1 1 1 2 4 1 2 Heart, Paralysis of 1 1 2 2 1 Heart, Paralysis of 1 2 2 1 Heart, Rupture of 1 2 2 1 1 Heart, Rupture of 1 2 2 1 1 Heart, Valvular Dis. of 1 1 2 2 1 1 Heart, Valvular Dis. of	ales	. ;				-	-	_	_	_	_	_	_	-	-	7	-		60	-			.;		_		- 1	- 1	- 1		- 1	_ :	_	_:	_ ;	:	_;		
Heart, Paralysis of	emales	- (	-;		_		-	÷		_				-	-	-	69	*	-	Q4	:		-1	-:	_		_		,		- 1	- 0	- 1	:	-1	_;	- 1		
Beart, Rapture of	ales	.;	:			_		_	-	-	_	_		,	00	63	-	,	1	1	Heart, Para	rsis of	-;	_	_		- 4			- 2				-	- 1	61	1		
Heart, Rupture of	emales	1	:	_				_	_	_		_	_	÷	1	1	-	,	7	1			- ;	_	_	_	-			- 0	_;	8	1	- 1	1	:	_;	-	
	emales						÷	_	_	-	_	-			1	-	1	•	1	_	Heart, Ruptu		-1		_	_	_				- 1		:	- ;	1	- ;	- 1		
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	emales	1	1	i			+	_	_				_	÷	1	1	-		-	i				-	_		_		•	- 4	1			1	- 3	-:	1		
	otal		-	-	=	_		7	-			-	_	-	10	63	60	9	9	60	Hemorrhage o	of Bowels		61			-	-					;	- :	1	- :	-		

Complete			: :
Males 6	Hemorrhage, Cerebral.		1 1 1 1
Femalos	Hemorrhage, Internal	1 1 1 1 1 1 1 1	1 1
Malos 1 1 1 1	Hemorrhage of Kidneys	1 1 1 1 1 1	1
1 1 1 1	Hemorrhage of Liver		: : :
Males 2 1 1	Hemorrhage from Noso	1 1 1 1 1 1 1 1 1	:
Pemales			:
6	Hemorrhage, Puerporal	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1
Males 3 3	Hemorrhage, Spinal.		1
Total 1 1 4 2 2 2 2	2 Hemorrhage of Stomach	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
Males	,, ,,		1 1
Females 1 1 1 1 1 1		1 - 1	
Total 2	Hemorrhage, Umbilical	1	1
Males 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
Pemales		1 · · · · · · · · · · · · · · · · · · ·	1
Females 1 3 4 6 8 6 1 5	b Hemorrhage, Uterine		
Total 2 1 2 2 1 1 8 2 2 2 18 13 19 5 27 11	11 Hemorrhage	8 1 1 2 1 9	1
Malos 2 1 1 1 2 2 9 9 4 13 7		5 1 1 1 1	1
Females 1 1 1 1 1 2 2 9 4 3 1 14 4	3	3 : : : : : : : : : : : : : : : : : : :	1 1
Males 1 1 1	Hernia, Abdominal		* * *
Females 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
Males 1 1	Hernin of Bowels	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
Males	Hernia, Irreducible Scrotal	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
Females	Hernia of Lungs		1
Males 1 1 1 1 1	Hernia, Umbilical	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
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. "Bled to death in hands of surgoon", 1.

TABLE XVII.—Continued .— Specified Causes of Death.

				M	ON	MONTHS, 1877	0.7	181	1				_			Y EARB.								AG	AGES IN PERIODS OF LEARS 1877.	IN	4	EX	0	0.00	5	4	4	100	20		
SEX	Vebruary.	rebrunty.	March.	May.	June.	July.	AuguA	September.	October.	November,	December	Unknown.	.7781	1876.		1875.	.1814.	.8781	1872.	CAUSES OF DEATH.		Under 5.	.01 01 6	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 10 45.	45 to 50.	- 90 01 09 ·	.00 of ca	60 to 65.	70 to 75.	75 to 80.	.3+70 bna 08
Total	1	-	01	24	.04	-	60	_	01	-	-	- 01		11	11	52	Ξ	8	15	Hernla (Unspecified)		64	1	1	T			-	-	-	-	01	10	80	-	-	
Males	- 1	1	91	01	61	-	60	- :	-:	_	_		_	13	10	18	~	3	11			C4	1	1	-0	1		-;	-	-	1	-	92	01	7	-	-
Females	- (	-	-	- 1	:	_ 1	;	61	-	-1	-		-	-	*	6-	<del>-</del>	9	4		Ì	1	- ;	-1	-	- 5	1	1		:	-	-	- 1	-	- 3	-1	:
Males	- )	1	1	-	- 1	- 1	-:		_;	-:	-:		_	-	- 1	:		1	1	Hiccough	Ì	-	- ;	1	i	- 1	1	-	-:	- 1	1	1	1	1		1	- 1
Total	i	1	-	-	_	- 1	1	:	-	_	-			7	7	G	00	93	CI	Hip Discase.		1	-		Q4	-	-	-	1	1	1	- 1	+	:	- 3.	- 1	- 4
Males		-	-	-	_:	- 1	1	- 1		_	-	- ;	_	60	1	60	01	50	64			1	- )	1	01	-	1	-	1	1	- 1	1	1	- 1	- 1	!	- ;
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Males 1	i	:	1	1	:	1	1	:	1	+	+	1	-	1	Impacted Faces	1		1
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Males	1	1	1	1	-	- :	-Y	:	-	+	1	1	1	_	Injury, Internal	1	- 1	:
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Males	1	:	1	:	-	1	Y	- 1	-	_	-	1	1		Injury	1	1	;
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. "Supposed came from child.birth," 1.

				M	MONT	F118,	-	1877.	50-1						YEARS	ES.						_		4	IGI	20	N	PR	RE	OD	0	-	AGES IN PERIODS OF YEARS.—1877.	AR	90	181	7	
SEX.	January.	February.	April.	May.	1 June.	July.	August.	September.	October.	November.	December.	Unknown.	.7781	1816.	1875.	7281	1873.	.978£	ò	AUSES (	CAUSES OF DEATH.	2 cobuit	Under 5.	5 to 10.	10 to 15.	15 to 20.	1 20 to 30,	,68 of 08 l	.04 01 68	.Ch 03 06 1	.06 of 64	.00 to 55.	.00 to 60.	.68 01 08	.07 01 69	. 67 of of	.08 of 67	. Toyobna 08
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Females	-	-1	4	- 1	_;	:		:	:	-:		÷	1	7	-	C1	1	-	•	:		-:	;	1	- 1	-		-	-	-	-	-	-	- 1	- ;	- 1	- 4	- 1
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Males	-	-	-	-	-		21	04	-	03	;		=	15	7	7	7	13	:	-			00	- 1	1		-	-	-	-	,	D4	-	1	C4		-	(
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Males	69	-	4	01	64	-	-	01	-	64	60	-	53	18	10	6	14	90		:		1	1	-		- 4		-	-	-	-	9	-	- 1	10	4	-1	- 5
Females	-	-	-	64		01	61	-	53	. 1	1	1	25	-6	-	9	01	60				-1	1	-	1	<del>-</del>	-	C1	04	-	-	1		- 1	- }	-	-	1
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Males	-	60	G4	-	-;	01	10	0	+	-	60	;	35	37	25	20	52	23	:			1	1	-	3	-		-	-	-	04	01	7	-	-	9	7	*
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Malos	:	+	-	;		1	1			1	-	1	01	-		Laryngitis		i	1	1	1	1	1	- 1	- 1	1	1	:
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. Includes 5 "Black."

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Caus
D.—Sperified
-CONTINUE
XVII
TABLE 3

				Ĭ	Month	H8,	, 18	1877.						X	YEARS.						٩	Ö	AGES IN	i Z	K	Periods of	98		H	Y B	ļ	YEARS.—1877.		
SEX.	January. 1	February.	April.	May.	June,	July.	August	September.	October.	November. December.	Unknown,	72281	918	1875.	.1874.	1873.	.278f	CAUSES OF DE.	DEATH.	Under 5.	5 to 10.	10 10 10.	20 10 20.	.08 01 69	.68 of 08	35 to 40.	.64 of 04	45 to 50.	.66 61 66	.60 to 65,	.07 of da	70 10 75,	75 to 80.	Mand over.
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Fomales		1	1	- :	- 1	-	-	:	20	:	_	2	10	50	04	04				00	1	_	+	-	1	:	1	- }	-	1	+	-	- ;	:
Males	:	1	-	- 1	1	:	:	1	-	- 1	_	i		i	1	_	1	Liver, Faity Degen. of		-	1	- ;	;	- 1	1	1	1	- 1	1	-	- ;	:	- 1	- 1
Total	-;	:	1	-	:	1	-	- 1	-	-	04	9	7		=	10	-	l Liver, Inflam. of		-	1	-	- 1		- 1	-	:	- 1	-	-	-	-	-	- 3
Males	-;	+	1	-	- 1	:	-		-	-	C1	*	04	64	-	10	_			1		-	- 1	-	- 1	- 1	:	1	:	-	-	-	:	1
Females	- 1	1	1	- 1	- 1	1	-	:	-	+	_	61	9	10	*	6	_			1	:	_	:	1	1	-	- ;	1	-	1	-:	-!	- 4	- ;
Females		+	- 1		-0	1	- ;	-	- :	- 1	_	1		i	į	- !	1	Liver, Rupture of		1		+	-;	- :	-:	_;	- 1	- 1	:	÷	-	1	- ;	-1
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Femalos	1	1	;	1	- 1	4	1	4	;	1		1	-	1		1	1	:		1	3	_	1	1	- (	÷	- 1	:	i	1	1	:	- 1	- 1
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			_	Ęō,	MONTHS, 1877,	18,	187	<b>.</b> .						YE	YEARS.						¥	AGES IN PERIODS OF YEARS,—1877.	Z	즉	ERI	8	80. O	Þ	X K	A B	Ţ	1877		
SEX.	January.	February.	April.	May.	June.	July.	August.	September. October.	November.	Десешрет.	Unknown,	72281	1876.	1875.	1814.	1873.	1872.	CAUSES OF DEATH.	Under5.	01 01 0	. dt o1 01	10 00 01	.d:: o1 02	1 25 to 30.	'99 01 08	35 to 40,	40 10 45.	45 to 55.	.00 to 60.	.68 of 08	.07 03 58	. 67 oz 07	175 to 80.	Spandover.
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Females	-1		1	-	-	1	1	-	01	-		-	04	6	C)	9		-	7	-	1		P#		- 1	7	_	- 1	-	$\dot{}$	÷	:
Total	1	-	1	:	-	-	-1	- 1	. ;	- (	3	1	9	63	7	01	Pieuro preumonla	1	Ė	1	1	- 1	-1	-	-	- 1	-	- 1	-	+	-	:
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Females	1	- 1	1	:	1	1	1	1	4	1	-	1	01	i	80	04		-	÷	÷	1	:	1	-	+	1	_	1	÷	1	-	:
Total	22	20	0	-	60	64	0	n	00	8	70	48	8	109	77	28	Pneumonia, Typhoid	90	-	-	12	61	10	=	9	60	10	9	- 9	CI.	60	-
Males		9	0	1	91	-	1	64	-	9	88	53	22	23	20	68		*	-	01	91	01	*	-	20	09	4	10	91	1	60	:
Females	=	10	10	-	-	-	01	9	*	03	65	51	55	46	20	19		*	1	Q1	99	64	7	=	60	:	-	60	-	01		-
Total 38 56 64 50 39 24	58	6 64	8	339		53	36	93	335	338	2 465	627	745	805	206	-	641 Pneumonia	180 21	=	01	17 12	23	21	9	64 64	21	53	20	22 17	7 20	-	7

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TABLE XVII.—CONTINUED.
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				N	MONT	TH	us,	1877	12						YEARS	RS.					-	AGES IN PERIODS OF YEARS,—1877.	90	N	PI	SRI	OD	8	A.	YE	A.R.	95	187	1	
SEX.	January	February.	March.	April.	May.	July.	August.	September.	October.	November.	December.	Тпкпочп.	.7781	19281	1875.	.4781	.ETSI	18791	CAUSES OF DEATH.	Under 5.	2 to 10.	10 to 15.	15 10 20.	20 to 25,	25 to 30.	80 to 35,	85 to 40.	4010 45.	45 to 55.	55 to 60.	.60 to 65.	.07 01 68	70 10 75	75 to 80.	Javobna 08
Males	38	77	70	24	19 15	9	22	16	2	13	27	-	263	198	450	471	433	292	Pneumonia	- 100	61	10	=	10	133	40	80	=	12	7 14	6	11	20	=	9
Females	8	81	55	26 2	20 9	8	10	9	7	16	=	н	202	263	203	330	575	219		. 80	6	40	9	-	10	1-	8	01	00	1 9	=	2	6	9	-
Unknown.	-		-	-	- 1	-	- 1	- 1	-:		1	- 10 A	1	1	-	-	1	-		1	1	·	-	1	-	+	- 1	-:	-	+	-	÷	-:	-	- 1
Fotal	н	-	-	00	7		90	60	-	- ;	80	.;	15	19	33	25	21	93	Poison	7	:	60	н	-	-	1	-	01	-	-	-	.0	:	- 1:	- 1
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Females	-	1	1	1	-	-	20	-	7	- 5	.01	-3	0.	13	90	10	9	**		20	- :	-	-	3	1	-	-	-	-:	7	•	P4	;	1	1
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Males	-;	1	;	- ;	-	-	- 1	-1	- 1	- 1	- ;	- 5	-	-	-	1	-	-	Prostate, Disease of	1		-	1	÷		÷	÷	+	+	- :	- ;		_	4	1
Males	-4	1	1	1	1	-	- !	- !	- 1	1	_1	7	1	-	1	1	- 1	-	Prostate, Enlarg't of	1	1	1	;	-	1	+	+	<del>-</del> :	-	:	-:	- ;	- 1	- ;	
Males	36	1	1	1	1	-:	- 1	- 1	- 1	3	- 1	1	1	-	1		1	1	Prostatitis, Chronic	1	1	+	÷	÷	÷	+	+	+	+	+	- 1	1	1	1	-:
Females	12	1	-	1	- ;	+	- :	- ;	1	-	- 1	1	-	1	1	1	1	-1	Prostration	-	1	+	+	+	1	-	+	+	+	- 1	-	:	3	1	:
Females		Ŧ.	1	- 1	-1	-:	- 1	- 1	- 1	1	- 1		-	1	1	1	1	- [	Puerperal Congestion	!	- 1	1	+	:	-	+	+	+	+	+	- 1		- 1	- 1	- 1
Females		i	1	-	+	-	69	1	1	- 1	- 1	- 1	*	9	10	-			Puerperal Convulsions	1	-	1	-	01	-	1	=	+	- 1	1		- 1	1	1	1
Females	;	-	89	-	10	-	10	01	0.3	CI	64	1	200	8	37	43	49	4	Puerperal Fever	1	1	1	04	-	7	7	10	+	-	-	- 1	-	- 1	1	1
Females	1	1	1	1	+	- 1	:	1	- :	i	- 1	-	1	-	04	00		-	Paerperal Peritonilis	1	1	+	i	1	÷	÷	+	÷	+	1		-!	- 1	-1	- 1
Unknown.	- 1	1	1	1	1	+	:	- 1	-1	:	-1	- 1	1	-	1	1	1	1		1	- 1	1	*	1	1	÷	+	1	+	1		- ;	- :	-	1
Females		1	1	-	-	- 1	:	- 1	-0	- 1	-1	- (	-	1	-	i	1	- 1	Puerporal Septicamia	1	1	÷	÷	1	+	1	-	+	1	-	- 1	- 1		1	:
Males	-	-	i	1	1	+	- 1	1	- 1	1	-1	:	-	1	1	1	1	-	Purpura Hemogrhagica	-	-	1	÷	+	÷	÷	÷	÷	+	:	1	1		1	- 1
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Femalos	1	- (	-	1	<del>-</del>	1	-1	1	1	-	-	00	-	0+	=		!	1	-	-1	- 1		- 1	- 1	:	1	- 1	1	1	:	1
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Total	:	01	03	7	1	8	1 10	-	61	4	37	55	-	25	39 Rullroad	Railroad Accident		4	61	9	9	04	9	20	-	-	_	_	-	+	93
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Males	1	- 1	+	1	1	1	ţ	1	1	-	-	+	- 1	- 1	Rash		1	÷	_;	- 1	:			- 1	- 1	1	3	- 1	1	-	:
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Females	1	1	-	1	1	1	- 1	1	1	-	1	-		1	Rhoumat	Rheumatism in Chest	1	÷	- 1	- 1		1	- 1	- 1	1	+	-	•	1	·	:
Males	1	4	:	1	÷	1	1	1	-	:	:	-	-	1	Rheumat	Rheumatism in Head	1	1	1	- ;		,	- 1	- 1	:	1	- 1	110	:	1	
Total	1 1	:	04	-	00	-	7	1	-	61	=	15	6	9	8 Rhenmat	Rheumatism of Heart	-	-	64	- 1	-		- 1	- 1	-		-	64	- 1	04	
Males	-	1	:	1	04	1	01	- 1	:	9	1-	6	4	00	*		_	-	-	-3	1	- )	- 1	- ;	- 2		- :	-	- 1	04	-
Females		1.	-	;	-	-	O.	4	- 1	9	4	60	10	60		= =	1	-	-	1	:	-	- (	1	-	1	_	-	1	7	:
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Males	24	İ	-	1	1	1	-	-	:	9	91	œ	00	22		•	1	-	-	1	-	-	- ;	÷		-	01		:	-	-
Females	1	-	1	94	-	1	:	1		9	01	20	7	21		,	1	-	-	64	-	-	~	:	- 1	1	- ;	•	Ė	÷	
Females	1	- 1	1	1	i	1	-1	i	+	+	:	-		1	Rheumat.	Rheumatism, Nerrous	i	1	15	;	1	-	- 1	- :	-	1	4	•	1	:	:
Males	1	1	-	4	- *	01	1	-	:	7	-	00	-	19	3 Rheumat	Rheumatism, Sciatic	;	1	1	:	-	_	1	1	1	1	-	-4	-	1	:
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Females	1	- 1	1	1		1	. :	Ť	+	+	1	1	-	-	Rheumat.	Rheumatism, Spinal	1	1	1	i	:		1	- 7	1	+	- 1		1	1	:
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1.	• Includes 1 "wi	=	I I	۱ă	B	ı	달	ne,	1:	aceld	1 5	BII7,	by e	ation	Sweet Cice	th home medicine," 1 'accidentally, by eating Sweet Cicely root," 1 "overdose of laudanum," and 1 "from diseased hogse."	Inuc	la la	Į į	1 .	둳	15	0 0	1 =	868	8	of	9	١.	1	

TABLE XVII.—Continued.—Specified Causes of Death.

SEX.				ă	MONT	H8	нв, 1877.	377.						7	YEARS.	mî.						4	5	 60	ž	P	CR.	AGES IN PERIODS OF	Ö	_  -	YEARS.—1877.	Ř	Ī.	3		
	January.	March.	April.	May.	June.	l July.	'ysnEny	September.	l October.	November.	l December.	Unknown,	1878.	-	1875.	1873.		1872.	CAUSES OF DEATH.		Under b.	101 03 9 1	1010101	,09 ot 09 l	1 20 10 25.	1 25 to 80,	85 to 85.	35 to 45.	1 45 to 50.	20 10 20	,05 to 60.	.60 to 65.	.07 03 69	. 57 ot o7 f.	.08 of a7	, 80 and over,
Total	2	10	4	03	-	60	4	10	Q1	7	9	-	5	82	31	75	53	50 R	Rheumatism	:	1	-	00	d	-	-	10	29	00	92	00	4	01	9	-	04
Males	-	4	91		-	01	00	90	01	01	4	1	8	20	81	01	18	01	=		-	-	00	-	-	1	80	-	- 00	-	94	00	01	40	1	- 04
Females	-	-	01	01	.;	-	-	01	- 1	01	01	_	7	=	61	=	=	18		i	1	-	-	- 1	-	-	-	-	_	<b>a</b> )	21	-	- :	-	:	-
Femalcs	1		1	- 1	1		1	1	-	-	-i	i	:	-,	01	-		;	Roseola	i	i	i	÷	- ;	-	-	÷	- 1	- 1	- 1	-:	1	- :	1		
Females	- 1	1	- 1	- ;	- 1	-:	- 1	-	÷	÷	÷	- 1		-	1	- 1		-	Rupture, Internal	-	1	1	÷	;	-	-	- ;	1	-		÷	:	;	;	- 1	
Females	1	-	1	- 1	;	1	1	1	-	$\vec{}$	1	-:	-	-	-	1	4	-	"Salt Rheum"	i	1	-	÷	÷	-	-	÷	3	-	_	+	- ;	- ;	1	-1	
Mules	:	:	1	_;	- 1	1	i	- ;	:	÷	-		- 1	1	-	1	1	1	Sarcoma, Medullary	1	1	-	-	-	÷	- 1	- 1	1	+	1	1	÷	:	i	-1	- 7
Males	;	:	- 1	1	-;	1	-	:	-	1	:	- ;	-	-:	1	-	:	1 3	Scald Head	1	7	-	-	÷	÷	·	1		÷	- :	<u>.</u>	- 1	-1	i	- 1	- ;
Females	- 1	-1	:	- 1	- 1	7	-	-	-	-	-	- 1	1	1	1	1		04	n n	1	1	1		1	-	-	-;	1	-	- 1				:	1	- 1
Total	*	-	Q4	7	4	00	*	-	01	10	_		62	83	78	67	36	8	Scald	;	8	-	:	÷	-	-	÷	i	_	-	- 3			1	- 1	- 1
Males	60	- 1	1	-	10	50	-		01	01	.01	-	22	12	19	21	500	12		- 1	83	-	- 1	÷	÷	- :	-		_1	- 1	-:	:	1.	ï	- 1	:
Females	1	-	-	- 1	-	-	-	T		60	Ť	- 4	00	10	12	10	13	6		1	9	:	÷	;	-	-	-:	1	_	-	-:			- 1	- 4	- ;
Malos	1	- \$	1	-1	:	1	1	i	-	1	1	- 15	-		-	1	1	1	Scalp, Disease of	1	1	-	÷	-	i	÷	÷	1		1	-			:		
Females	1	1	;	- 1	-1	;	1	-	-	1	1	:	!	1	+	-		-		1	1	-	÷	-	1	i	+		-	1	-			;	- ;	- ;
Total	32 33 31 33 40 35	150	53	40		88	65	88	55	80	46	=	107	1001	123 44	440 58	550 5	565 S	Scarlet Fever	4	261	96	55	9	9	60	-1		+	_	01	- 1		-	- 1	1
Males	20 18 13 18 19 18	13	82	19	_	3		60	16	17	20	8	203 11	103	216 22	284 22	297	202		1	134	20	9	60	-	94	- 1	-	+	-	<u>-</u>			-		- 1
Females 12 15 18 15 21 17	12 15	90	5	ei.	17	3	12	15	19	00	95	S4	200	500	207 20	200	283	273	, , ,	- 1	127	-5	12	20	*0	-	÷	1	1					- 1	:	1
Unknown	:	1	;	- 1	- 1	1	:	-	i	i	÷	- 1	1	+	1	1		1	27	1	1	-	1	i	i	- ;	-	1	:	- 1	4			1	- 1	- ‡
Males	- 1	:	:	- )	1	1	:	1	:	1	-		1	1	1	1	-	1	Scirrhosia	;	1		:	Ť	÷	÷	+	1	- 1	1	4			- 1	- 1	:
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## CAUSES OF DEATH, SPECIFIED.

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Males	1	+		1		÷	8	1	÷	1	_		1	1		8curvy	1	1	1	-	1	:	1		-	_	-	:
Females	1	1		1	-	1	1	1	+	1	i	1	i			Sea-sickness	1	- ;	1	-	:	1		_	1	_	1	1
Malos	1	- 1		- 1		+	1	i	+	1	-	1)	:	į	1	1 "Self Abuse".	i	4	1	- 1	1	1	1	_	1		1	1
Femalos	1	1	- 1	1	3	- 1	- 6	1	-	-	-	1	1	1	1	Septiciemia	1	1		-	1	1	-	_	1		1	1
Males	1	3		-1		+	1	:	1	1	1	-	1	1	;	Shock	1	1	1	- 4	1	1	1	12	1		1	1
Females	1	1	_	-0	1	1	1.5	1	1	1	1	-	1	;	i		1	1	1		+	1		- 1	1		1	
Males	:	1	-	1		1	1	;	1	1	1	:	1	1	1	1 "Shot Himself"	1	1	1		+	:	. 2	İ	1		- 1	1
Fomales	:	1	_	;	7	-	-	1	1	•		1	1	1	i	Sickness of Mother	1	1	1	•	÷	- 1	-	:	1	_	-	:
Malos	1	- (		7	1	-	1	1	-	1	1	. :	-	1	;	Skin Discase	-1		- 1		1	-1	*	1	1		:	.4
Femalos	1	+	-	- ;		1		- 1	- 1	1	-	1	01	1	i		i	1	1	-0	1	1	-	Ė	- 1		-	-2
Total	8 12 11 12 M	11	_	2	1-	10	-	04	10	102	76	56	18	96	305	302 Small-pox	33	39 14	67	33	9	10	60	t	23		:	
Males	5	4	7 8	9	21	-!	-	- 1	69	15	43	8	11	40	172		19	10	1 6	t-	*	0.	01		01		-	- 1
Females	20	-	9	90	9		- 1	04	01	21	125	9	7	7	130	***************************************	90	6	1 7	01	69	00	90		1		+	1
Males	14	- 1		1	- 4		- 4		-1	1		-1	1	1	C.	Snake Bite.	1	:			1	1	,	İ	1	- 1	- 1	1
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Males	1	-	_	- 1		-	1	\$	-		1	1	1	1		Spasm of Glottis	1	-1	- 1		1	-1	1	:	1	- ;	:	:
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Males	1	1		-1	·	-	- (	3	1	1	-	14	1	i	1	Spider Bite	1	;	1	1	1	1	-	1	*	:	4	1
Malos	1	÷	1	3	*	-	1.	i	1	1	1	:	G4	1	1	Spina Bifida	!	1	1	- :	1	1	-	1	1	:	1	1
Females	1	- 1	:	26	-		11		1	1	1		÷	1	-			1	1.	- 4	1	1	1	Ż		:	1	:
Females	1	7	1	1	- V	- 4	4.	1.5	1	_	1	- 1	1	1	1	Spinal Irritation	1	- 1	:	:	:	:	•	1	1	1	:	:
Males	1		- 1	1	-		•	1	- 1	1	-	- 1	-1	-	1	Spine, Concussion of	1	-1	- 5	4	1		,	- E	1	1	;	1
Total 3	9	7 14	00	CI	8 10	6	9	1-	-	81	73	8	=	170	8	20 Spine Disease	330	65	20	-	50	-	60	91	24		-	:
Malos	01	-	9	-	4	65	7	10	- ;	37	60	12	51	86	33		17		<b>Q</b> #	1	01	T	,	•	-		:	:
Females :	4	01 9	00	-	63	9	64	01	-	43	36	33	63	84	4		8	10	1	+	-	-	01	01	50	:		1

. Includes 5 from Scarlet Rash and 1 from Canker Rash.

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			7	Montus,	ŢĬ	, ,	1877.	_						YEARS.	RS.				_		AG.	ES	AGES IN		EH	PERIODS	90	0.1		YEARS.	R8	.—1877.	377.			
SEX.	January. February.	March.	April.	May.	July.	August.	September.	October.	November.	December.	Unknown,	.7731	1876,	1875.	.1874.	.878f	1872.	CAUSES OF DEATH.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	.05 to 30.	30 to 32.	.01 01 68	40 to 45.	.05 of 64	.66 ot 06	09 01 00	.69 03 09	65 to 70.	70 to 75.	75 to 80,	80 andover. Unknown.	
Unknown	1 :		1	1			1	-:	1 :	1	1	-		7				Spine Disease		:	3		_1		1 :		- ;	1		1_1	1	1	1	1	1	
Males	:		<del>-</del>	1	- 3	1	3.	- 1	1	- 1	1	i	1	-	04	64	C4	Spine, Inflam. of.	-;	:	- 1	-1	- 1	- ;	- ;		- (	1	- 1	÷	1	- 1	1	-	- ;	
Femalos	-		-	1	-		-1	- 1	- ;	1	;	68	91	1	1	1	1		-	-	.1	-	- ;	- 1	1		1	1		- 1	1	- 1	-	-	-	
Males	$\pm$		-	1	-	- 1	- 2	- 1	- 1	-	1	01	1	7	1	-	1	Spine, Injury of	-	:	1	1	1	1	- 1		:	1	- 1	-	- 1	1	- 1	÷	-	
Females	:		÷	+	- 1	- 1	_ :	:	- 1	- 1	1	1	1	1	-	-	1		1	1	1	i	1	- 1	- 1		1	:	- 1	1	1	Ť	-	÷	- 1	
Males	-	_	1	-	1	1	- 1	:		1	1	i	1	1	94	1	1	Spine, Paralysis of	1	-	1	- 1	1	i.	1		- 1	1	1	1	4	1	;	-	-	
Females	1		i	1	- 1	:	- 3	- (	7	-	-1	-	1	1	-	1	1		-	1	1	-:	1	;	- 1		:	1	- 1	1	;	-	i		-	
Males	1		1	1	- 7	-:	1	1	:	- ;	:	Ť	1	-	1	1	1	Spine, Softening of	4	1	3	- 4	-1	- 1	;		-1	:	÷	1	1	i	-	÷	:	
Males	1		-	1	- 1	- 1	- 1	- ;	:	-1	- 1	1		1	1		-	Spiritualism	1	:	1	- 1	- !		- 1		1	1	- 7	- 1	- 1		1	i	1	
Males	1		÷	1	- 1	1		-1	-1	-	1	i	1	1	1	1	-	Spleen, Disease of	-!	1	1	-1	- ;	1	- ;		1	- 1	- 1	1	1	7	- 1	-	-	
Females.	1		$\dot{i}$	- ;	-	:	- 1	1	1	4	-:	-	-	1	1	1	64	, ,	:	-	:	ij	- 1	- 1	;		:	.)	ij	÷	- 1	Ť	1	-	-	
Males	i	- 1	-	- 1		- 1	1	1	1	0	1	-	T	1	1	-	OH.	Spleen, Enlargement of	1	-	1		1	- 1	4	_		-;	1	:	-1	Ť		Ť	-	
Females	1		:	- ;	- 1	-:	1	- 1	1	- 1		1		-	1	-	- 4		- 1	1	- ;	1	. 1	ì	-1		:	- 1	- )	- 1	- 1	1	1	÷	1	
Males	1	_	-	- 1	1	-1	- 1	T.	- ;	1	1	-1	•	-	1	1		Spleen, Inflam. of	:	:	1	1	. 1	- 1	- ;		- (	1	- 1	-1	1	- ;	1	+	-	
Females	1		i	1	- ;	-:	- 1	- 1	;	-1	:	ŧ	•	;	-	1	1.6	***************************************	-1	1	:	-:	1	:	- 1		- 1	1	1	1	- 1	:	Ť	÷	1	
Males	-		1	1	- 1	- 1	1	1	1	1.	1	1		1	1	-	*	Sprain of Side by Lifting	-1	1	:	- 1	1	-:	1		1	-1	- è	:	-	1	1	÷	;	
Males	1		i	1	- 1	- 1	1	4	1	1	1	i	-	-	-	i		Stabbing	4	1	1	1	- 1	1	1		1	- 1	- +	1	1	1	-	i	1	-
Males	+		÷	:	- 1	- 1	. 0	1		1	-	1	- 1	-	1	1	- *	Starvation	1	-	:	:	;	1	- 1		- }	1	:	1	- 1	1	- 1	÷	:	
Females	1		-	1	- 1	- 3	:	-1	-1	7	1	1		i	01	- 1			1	:	1	1	.4	-1	-1		:	-1	- 1	.1	1	:	1	-	-	
Total 36 49 74 36 52 58	36 43	74	98	25	8 26	3 73	46	73	8	95	10	720	979	629	191	274	507	Still-born	-	720	- ;	:		:	- 1		:	;	. 1	- 1	- 1	:	-	-	-	
Males 15 20	10 90	_	27.9	27 26 30 3	180	4	19	-	27	27	64	399	350	*	257	153	001		65	399	3												-	_		

· Includes I from "nipple of nurse bottle."

TABLE XVII.—Continued.—Specified Causes of Death.

				Mont	NT.	18,	18, 1877							YEARS	LRB.							¥c	AGES IN	Z.		Periods of Years.—1877.	101	08	0	<b>;-</b>	EA	B.	7	87.	٠	
SEX.	January.	February.	1 April.	May.	June.	July.	August.	October.	November.	December.	Опклочп.	.7781	1876.	1875.	'#48t	.8781	1872.	CAUSES OF DEATH.	реати.	Under 5.	.01 01 6	10 to 15.	1 12 to 20.	,62 or 02 l	.08 of 69	. 30 to 35.	.95 to 46.	1 40 10 42	1 45 to 50.	. 50 to 55.	.03 of 66 [	60 to 65.	.07 01 68 1	1 70 to 75.	1 75 to 80.	SO and over-
Females	1	-:	1		-	- 1	:	- 1	-1			21	0.3	10	9	0.0		2 Suffocation		-	-	-1	- i	1	- ;	. 1	-1	1	- 1	1	i	1	1	-1	- 1	- ;
Unknown.	İ	- 1	1	-	+	-	:	- 1	- 1	:		1	-	1	1	- 1	1			1	-:		- 6	1	1	1	- 1	- 1	1	:	i	4	:	1	- 1	-
Total	01	2	*	7	0	9	4	01	-	10		99	5	55	53	33		35 Suicide			;	:	00	10	9	90	KO	00	0	00	+	-	99	-;	-	-
Males	01	4 6	30	+	10	93	1 2	61	0	9		46	2	4	81	30		200 E		-	1	:	60	9	20	10	60	1.	-	1-	172	-1	99	1	-	-
Fomales	- 1	-	-	60	4	00	00		-	10		50	=	10	23	8				1	1	1	10	*	61	1	0.5	-	C.	-	-	-	:	1	:	-
Total	1	+	1	=	01	-	2	-	1	:		11	17	1	5	50		6 Sun-stroke			50	1	-	1	-	-	-;	1	-	64	:	-	- 1	1	:	- :
Males	- 1	:	1	-	-	1	50	-	- 1			7	15	-	19	04	-	,, ,, 9		-	C1	-1	1	1	1	-	1	14	-	64	;	-	1	-	:	- ;
Females	_;	1	- 1	1	-	7	G4	- 1	- 1	:		-	01	1	01	7	ł	= -		-	-	- 1	-	- 1	-		:	.1	- 1	1	1	1	1	1	- 1	:
Total	i	1	-	1	1	-	-	:	1	_)		01	90	1	.04	63	:	Surgical Operation.		-	:	- 1	1	-1	1	;	-:	1	1	:	1	1	-	-	- 1	;
Males	_1	1	-	Ä	÷	-	+	- ;	:	;		-	-	1	01	C1	1				1	1	1	- 1	1	;	:	1	- ;	1	1	-	1	1	- ;	:
Females	i	1	1	Ì	÷	-		- 3	1	1		-	CI	1	1	-	1			1	1	- 1	1	1	1	1	-3	1	-1	:	i	;	-	:	- 1	1
Males	i	1		Ť	1	÷	1	:	- !	-1	L	- 1	-	1	1		1	Swallowing a Penny when a Boy	y when a Boy	-	1	1	1	- 1	1	1	-1	1	1	- 1	i	1	1	1	- 1	1
Total	-	:	-	:	:	1	69	-	01	1	1	-	9	-	6	9		8 Syphilis			-	- 1	1	-	Ċ1	1	-	- (	-	-1	-	1	- 1	1	- 1	1
Malcs		1	-	7	1	-	-	-	-	1	-1	10	20	60	4	23		1		1	1	-1	1	•	-	1	-	1	-	1	-	1	-0	- 1	-1	- ;
Females		1	1	Ť	÷	1	:	- 1	- 1	- (	1	-	01	01	9	63					-	-1	-	1	-	- 1	1	1	1	1	1	1	-1	1		1
Unknown.	1	1	1	i	1	-	1	1	-	-1	1	-	-	1	1	;	. 1				-	- 1	1	- 1	4	-1	- 1	1	-	-1	1	1	1	1	- 1	;
Total	00	61	-	1	61	17	9	9	1-	0	1	99	11	71	80	106	103	3 Tecthing		63	1	- 1	1	1	1		- ;	1	1	· i	1	- 1	-1	-1	:	:
Males	60	2	1	10	01	- 00	4	4	*	13	- 1	95	30	37	7	9	0	62 **		80	1	- 1	1	- 1	1	_1	:	1	1	- 1	1	-	1	1	- 1	:
Females	4	61	-		-	*	22	9	00	4	:	22	255	100	48	46	0	19		25	:	-1	1	- :	1	1		1	- 1	1	•	1	:	1	-:	;
Total 1	;	-	1	H	1	1	:	-	O.	H	:	9	04	1	10	03		3 Tetanus (Lock.jaw)		-	1	7	-	-	1	:	1	-	- 1	1		1	-	- 1	- 1	:
Males				,	-								-						•															Ī		Ī

Females				1	ì	-								Tetanus (Lock.jaw)						1	Ċ	•
Malos	1		:	;	:	1	1	1	-	1	1	1	T	Tetanus	-	1	1	1	:	1	Q.	•
Fomales	1	•	1	1	1	1	1	П	-	1		100	1		-	-	1	i i	:	1	. :	•
Total	-	-		G1	1	21	1	10	55	2	18	100	18 T	Throat Disease	9	1	1	1	;	1	- 1	•
Males			-	01	1	-	1	7	13	80	=	15	10		10	-	1	1			1	•
Females	-	10	-	1	1	г	1	22	30	*		16	90		7	-	- 7	1	1	1	- 1	•
Total	1	1	1	Ħ	-		1	112	*	63	-	1	1 1	Throat, Infiam of	-	·		1		:	1	•
Males	:		1	į	1	:	1	-	63			1	-		•	:	1	1	1	1	;	•
Females	1	100	1	-	1	:	1	94	-	61	1	+	1	, , , , , , , , , , , , , , , , , , ,	П	-	1	1	- 1	1	:	•
Males	1	- 1	1	1	-	- 1	1	-	1	1	-1	1	H	Throat, Paral. of	7.1	•	1	:	1	1	-	•
Total	1	٠	1	)	1	1	1	21	16	0	20	24	4	Throat, Putrid Sore	-	_i	1	-	-1	- }		•
Males	1	1	1	1	1	1	1	-	-	4		H	60		- 1		1	1	1	1	:	•
Females	1		1	;	1	1	-	-	3.	01	<u>0</u> 4	-	-		-		1	-	- (	- 1	- 1	•
Males	1	-	1	1	1	- 1	1	1	1	1	- 1	1	1 I	Throat, Ulceration of		•	1	1	11	- 1	. 4	•
Females	1		1	1	1	- 1	1	1	1	G4	- 3	1	;				1	1	1	1	-1	•
Total	*	-	4	1	10	1	1	1-	10	11	00	9	11 T	Thrush	10	1	1	-	1	:		•
Males	1	-	1	1	-	1	:	74	93	10	00	G+	7		04	•	7	1	1	1	- 1	•
Females	:	,	:	\$	QV	-1	1	10	01	9	10	7	~		00	- 1	1	1	1	1	1	•
Males	1	1	1	. 1	1	:	1	1	1	1	i	1	1 I	Tongue-tied	4	:	1	3	1	1	1	٠
Males	1		:	1	1	1	1	1	1	1	i	1	H	Tonsilitis	*	-	1	;	1	1		٠
Femalos	1	•	1	1	1	- 1	1	1	1	1	1	+	1	*		1	1	-1	1	1	1	•
ales	1		1	4	1	T	:	1	1	1	-	1	1	Trachitis	1	:	1	1	1	†	1	•
males	1		1	1	1	1	1	1	1	1	1	1	1	=		1	1	1	1	1		•
198	1		1	1	+	1	1	-	1	-	04	-	1 1	Trichiniasis	191	:	1	:	1	1	1	•
males	1	•	1	. 1	1	- 1	1	1	-	1	01	1	-			1	1	1	11	1	1	٠
	1		;	1	:	-:	1	-	1	1	1	1	1	Tubercles of Liver and Kidneys		•	1	1	:	1	1	٠

TABLE XVII.—Continued.—Specified Causes of Death.

					ĭ	MONT	нв, 1877.	8	;								YEARS.	88						VG	AGES IN			PERIODS OF	OD	S		YEARS.—1877.	ES	Ī	87		
SEX.	January. February.		March.	April.	May.	June.	July.	.isuguA	September.	Осторет.	November.	December.		Unknown.	72281	1876.	1875.	.4781	1878I	1872,	CAUSES OF DEATH.	Under 5.	.01 of 6	.čI ot 01	15 to 20.	50 10 25.	25 to 30.	20 to 35.	35 to 40.	40 to 45.	.66 of 06	55 to 60.	.68 of 08	.07 01 53	.67 of 07	75 to 80.	So and over.
Males	· Y	- (	- ;	- 1	*	- 6		- 1	- 1	_1	- 1	-	i	- 1	1	-	-	-			Tumor in Abdomen	1	- 1		İ	÷	<del>-</del> i	+				1	-1	- (	- 1	- 1	- 7
Females	•		1	1	:	-	1	:	1	1	-1		i	+	1	-	00	1	62	-	1 " " " 1	1	1	1	i	:	1	-	+	1	1	1	1	1	1	1	- 1
Males	X	1	1	- 1	1	- 2	1	:	- 1	1	- 1	- 1	- 1	1	1	-	1	-	1	1	Tumor under Arm	1	4	-1	1	1	1	1	1	+	- 1	1	1	1	-1		1
Males	-	- ;	- 1	1	:	1		-	1	- 1	- 1	- 1	1	- ;	-	1	1	1	24	-	Tumor on Back	-	- 1	1	i	:	i	7	1	1	+	:	1	-1	1	1	1
Females		-1	1	1	- 4	- (	1	- 5	1	i	- 1	1	Ť	- 1	-	64	G1	1	24	-		1	- (	- 1	1	1	;	1	4	1	- 1	1		1	1	1	1
Females	- 1	1	1	1	:	-	-	1	-	1	1	-;	-	4	-	1	1	1		1	Tamor in Bowels	1	:	1.	3	1	- 1	-	-	+	- 1	1	:	:	:	1	1
Males	. 4.	12	-	1	-	-	- 5		1	3	1	+	i	- 1	04	-	П	04	-	1	Tumor of Brain	1	- 1	-1	1	i	1	i	+	1	_	-	- (	1		1	-:
Females	- 1	- :	- 1	1	8	:	1	1	- 1	- 1	3	-	÷	+	1	1	-	01			1 " " "	ì	:	1	1	1	1	1	1	-	1	;	- 1	1	1	17	- 1
Males	1	-4	1	1	-1	-1	1	1	1	1	- 1	1	1	+	1	-1	1	-	1	1	Tumor of Chest	1	- 1	- :	1	Ť	-	÷	÷	+	- ;	- 1	:	-1	1		1
Females	- 1	:	1	1	1	- 5	1	:	1		-	-	1	-	-	1	-1	1	1	1		i	1	-1	i	÷	-	+	+	1	-	1	1	- 1	-1	1	:
Females	- 1	1	1	1	1	d	1	1	1	i	- 1	-	- 1	+	1	1	1	1	1		1 Tumor, Encephaloid		1	-1	i	i	1	÷	÷	:	1	1	-1	- 1	- 1	1	1
Males	- 7	- ;	1	i	1.	:	. !	- ;	1	- 1	1		1	+	-1	-1	-	1	1	i	Tumor, Fatty	1	- 1	- 1	;	-	1	+	+	1	1	1	- 1	- )	-1	-1	1
Total	- 8	-	1	1	1	1	- 1	-	1	. :		1	÷	-	64	64	1	1	20	20	1 Tumor of Head	-	- 1	- 1		1	* 1	1	÷	1	+	1	1		1	-	1
Males		- :	1	1	1	1	1	-	:	1	1	÷	÷	-	н	-	1	1	04	01		1	1	1	1	-		7	+	1		1	1	1	-	-	1
Females	- 1	-	1	1	1	1	1		1	1	- :	-	-	-	H	-	1	1		1		-	1	1	1	1	÷	÷	+	1	4	1	1	1	1	1	1
Males	1	:	1	- 1	1	;	1	1	1	1	- :	-	:	÷	1	-	1	1	-	1	Tumor on Lungs	1	1	1	Ì	Ť	1	*	1	1	1	1	1	- ;	1	1	1
Fomales	- 1	-	5	1	1	1	1	1	1	1	1	,	-	- 0	-	- 1	1	1	1	4		1	1	1	i	-	1	1	1	-	1	1	1	- 1	-1	1	1
Males		- 1	1	- 1	T	-	1	- }	1	1	-:	+	1	+	1	-	1	i	1	-	Tumor on Neck	1	- 1	1	1	Ť	-	-	-	1	:	-	-1	- 1	- 6	- 1	- 1
Females	- 5	:	1	- 1	1	:	:	1	1		1	+	1	+	i	1	01	1	1	1		1	1		1	-	1	-	1	1	1	1	1	1	1	:	1
Females	- 1	- :	1	1	- 1	1	:		:	- 1	i	_	i	+	:	1	-	1	i		Tumor, Operation for	1	:	:	;	1	-	Ť	÷	:	1	1	- 1	-7	1		-:
Malan			Ī				Ī				_	_		-		,				_																	

Males		1	-	2.	1	2	1	\$		Ė	1		1	-	1	i	1		Tumor in Side		4		1		1			1	1	1		÷	+	1	1
Females.	7	1	-	1	X	5	1	1		-	1	2	1	C+	69	1	1	i	3 2 9	***************************************		7	i	1	1		1	Ŷ	1	1	:	:	1	1	1
Femalos	i	1		1	1	. 1	1	:	T	1	;	1	1	:	-	1	1	1	Tumor on Spine	******	-	1	1	1	:	-	1	1	;	1	÷	T	:	:	1
Total	į	1		1 1	-1	-	1	1		1	-	:		10	90	20	9	-	Tumor in Stomach	п	-	1	1	-1	j		1	1	1	-	4	-		-	
Males	į	1		-	1	1	1	1		:	1		-	01	69	00	00	_	:	*******	-	1	.(	- 1	i	+	1	1	ï	1	1	1	+	-	1
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Males	į	1		1	1	1	1	1		1	1	1	1	-	-	04	-	-	Tumor on Throat			1	1	;	i	<del>,</del>	1	1	1	- 1	-	1	1	1	1
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Total	_	4	-	4	-	1	64	1	00	-	*	1	55	91	13	19	63	15	Tumor (Unspecified)	1ed)		-	-	:	1	01	61	-	-	-	7	-	4	•	- 1
Males	_	04	04	-	1	1	1	1		1	4	1	=	QI	10	9	00	63			-	1	7	-1	1	-	1	90	1	1	20	-	+	- 1	1
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Females	;	-	_	-	;	1	1	1		1	1	-	60	7	93	*	7	_	Turn of Life.		•	1	1	- )	İ	-	-	-	-	i	-	-	- 1	1	1
Males	;	- 5		. :	-1	:	1	1		1	1	:	1	-	1	4	1	1	Tympanitie			+	- 1	1	1	- 1	- 1	1	1	1	- 1	1	:	-	-1
Males	;	- 1		3	1	- 1	:	- 1		1	-	+	-	-	1	i	1	1	Ulcer on Lungs	-		1	1	-1	1	,	:	1	- 1	i	-	-	1	i	R
Females	i	- 1	_	:	1		1	- 1		i	:	1	1	-	1	1	1	1		***************************************		1	- 1	- 1		+	1	-1	4		1	+	-	- 1	- 1
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Malos	- :			1		- 1	1	1		1	1	1	1		1	i	1		Ulcor on Penis	***************************************	-	-	1	1	i	+	1	1	ï	-	÷	+	+	<u>.</u>	- 1
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Malcs	;	-		1	:		1	1		1	:	1.7	1	1	-	1	1	1	Ulcer on Spine	*******		1	- )	1	i	-	1	-	1	i	Ť	÷	+	- 1	- 1
Males	1	1.0			-	1	1	1	_	i	1	-	1	90	1	1	-	1	Ulcers (Unspecified)	(pe	-	1	1	ì	0	4	1	1	4	1	+	-1	1	3	1
Females	4	-0	-	1	;	:	1	- 1		1	1	1	-	1	7	01	-	1	:	*******		- 1	1	1	i	-	1	1	;	3	1	1	÷	1	- }
Total 30 96	90		118	10 119 92 90 118	06		157	150	01	21	21	15	1392 12	1329	1387 14	1468	1516	1373	1373 Unknown	A	923 3	36 19	31	61	58	21 21	25	35	85	25	95	31	23 21	=	16 66
Males 49 47	49 4	7 68		67 57 4	7	65	16	77	62	3	99	7	744 63	656 7	729	289	804	734	*	*******	202	18 12	2	1	9	_	9 15	9	22	101	19	17 11	13	21	33
Females 40 49	401	45		52 33 4	9	3	80	24	23	9	53	90	636 55	557 6	645 6	999	200	630		-	410	22	01	12	19	21	12 18	120	10	16	151	14 12		9	15
Unknown. 1	-	:		Q1	- 1.	04	-	-		-	00	-	12	16	10	60	9	6			9	1		1	i	:	;	1	1	÷	÷	-	-	1	Đ
Males	;	1		1	_	1.	1	1		i	01	1	+	-	-	i	1	1	Uremia	-	-	7	:	-1	i	1	:	4	1	1	;	1	1	:	-\$
			1		1	1	ŀ	1	1	1	ĺ	-	١	1		1	1			-		1	1	1	1	1			1	1	١	1	1	1	١

See Exhibit Z, page 245.

TABLE XVII.—Continued.—Specified Causes of Death.

				ă	MONT	Ţ	-	11 <b>5</b> , 1877.	. •						-	YEARS.	.85					7	AGES IN PERIODS OF YEARS.—1877.	6.8	×	PE	RIC	90	OF	Ä	EAB	80	-186	5		
SEX.	January.	February.	March.	April.	June.	.Yluly.	August.	September.	October.	November,	December.	Unknown.	.7781	'9281		1875.	'FZSI	.8781	1879,	CAUSES OF DEATH,	Under 5.	01 01 9	10 to 15.	102 01 61	95 to 30.	25 to 30.	22 10 40.	40 to 45.	45 to 50.	.66 of 06	*09 01 gg [	60 10 50,	.67 01 07	75 10 80,	.19vo ban 08	Таквожа.
Females	- 1	- 2	:	:	-	-:		:	-	1	- 1	:			- 1	1	1	1	1	Uræmia	1	i	1	-:	-	1		1		- 1	1	-	:	:	1	
Males	- 1	i	- 1	1	-			9	:	- 1	;	ः	1	- ;	1	1	01	21	-	Urinary Diseases	- 1	i	÷		-	+	+	-:	;	- 1	- 1	- ;	÷	- 1	- ;	-:
Males	1	1	+	÷	-	- :	-	1	- 3	1	:	- 1	1	-	-	1	1	1	1	Urinary Organs, Dis. of	- !	Ť	Ť	-	1	+	-		- 1	- 1	1	:	+	1	1	÷
Males	1	i	1	1	- 1	- 1		-	i	- 1	:	- (		-	-	1	1	1		Urine, Retention of	1	-	÷	÷	-	+	:	- 1	- 1	- ;	- 1	-	1	-	1	
Females	1	- 1	-		-	-:	-	-	- ;	- 1	- 1	- 1		01	-	01	94	ec.	4	Uterine Tumor	1	:	1	÷	1	÷	1	QI.	1	- }	1	-		-1	- 1	-
Females	1	-	1	1	-:	- 1	1	1	- 1		-1		j		-	*	1	1	-	Uterus, Abscess of.	1	-	1	÷	1	1	+	- 1	- 1	;	7	i	-	1	- 0	-:
Fomales		- 1	1	- ;	-:	1	1	1		- 4	- 1	- 1	1	- 1		-	1	1	1	Uterus, Cauliflower Exeres. of	1	- 1	i	-	1	1	-		_ ;	1	1	- i	-	1	- 1	
Fomales	- 5	1	1	1	1	- 1	- 1	-	- 1	- 4	- 3.	= 1		-	1	1	-	-	-	Uterus, Dis. of	:	1	1		-	- 1	-:		- 1	- 1	- 1	-	- 1	- 1	- 1	
Fomales	1	-	-1	01	- 1	_:	- 1	- 1	- ;	. :	- 1	:		*	10	*	49	21	00	Uterus, Inflam. of	i	-1		01	:	-	-	- 1	1	1	1	i	-		- 1	-:
Females	;	-	:	1	-	- 1	-	- 1		1.0	1	- 1	1		-	1	1	1	-	Uterus, Rapture of	J	1	1	÷	÷	:	+	- 1	- 1	-;	:	- 1	÷	1	- 1	÷
Females	1	i	-	+	:	-	:	1	-	- 1	- 1	- 1		-	-	64	1	01	Q4	Uterus, Ulceration of	1	1	1	-	÷	÷	+	-	-	:	- 1	÷	1	-	1	÷
Males	;	-	÷	;	+		i.	1.	- }	- 1	1	- 1	1	1	1	1	1	-	i	Vaccination	1	:	:	Ť	÷	-	1	1	;	- 1	:	Ť	:	:		÷
Males	1	i	1	;	1		. :	-1		- 1		- 1	1		64	i	i	1	7	Venereal Discase	1	:	1	:	4	÷	÷	1	- ;	1	:	÷	÷	+	-	÷
Females	- 1	i	1	1		-	1	-	Ξ.	1	1	:	- ;	1	61	i	1	1	1		1	:	i	i	÷	-	+	1	1	;	:	÷	1	1	-	-
Females	- 1	- ;	-i	1	1	4	-	_		;	1	1		+	-	i	1	1	i	Vomiting	-	1	1	:	÷	÷	7	-	1	1	:	÷	÷	+	_	÷
Malos	1	- 1	i	1	_	1	- 1				:	1	1	1	i	i	1	23	04	Whisky	1	:	:	:	i	1	+	-:	1	1	1	1	÷	1	1	:
Females	1		i	÷	1	- 1	4			1	-	1	1	1	1	i	-	-	1	***************************************	1	1	:	1	÷	:	÷	1	1	- 1	- 1	1	÷	÷	1	
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Males	1	-		- 1	-	+	1	-		-	1	1		-	1	+	*	64	7	т.	1	1	1	:	1	1	-	:	1	- 1	1	- 1	-:	-	1	1
Females	;	:			+	+		_	-	-	1	- 1	_	-	1	1	-	1	1		1	1	1	1	-	-	+	1	1	- 5	1	:	1	-	÷	÷
Total	9 6		- 9	7	di	8 10	00	91 00		0	-	_	-	131	181 101		153	906		100 Whooning sound	100	α	5	-	-	-	-	-							+	

Malos   8   3   1   5	99	10	-	2		10	50	9	9	1	10	63	43	99	105	100	Whooping.cough		8 79	_	=	100	+	1		1	9	;
Females 3	100	92	49	01	P-	8	30	7	4	1	20	0.5	82	98	101	89		9	10		1			1		-1	- 1	
Unknown.	1	-	4	1	1		- 5	1		1	1		:	-	:	-		1	1		t			1	16	-1	•	:
Total	1		+	-	:			п		1	9		9	-	G1	20	Worms				1	- 6		+		1	,	:
Males	1	1	1		1		-	-		1	20		1	04	-	80	2		1		1	+	;	1		;	- )	:
Females	1	1	-	1	1		- 5	1	100	1	*		40	0	-	0	7		91		-		1	1	1	3	- 1	:
Males	1	- 1	1	-	1		1	-1		1			61		1	-	Wounds, Army	1			1	1	÷	1	1		Α.	:
Males	-1	- ;	1	:	1		150	1	- idh	1	1		1	İ	-	-	Wound of Foot.	i	4_	- 1	1	1	•	1		:	-	:
Malos	1	1	1	- 1	1		1	1		- 1	;		;	***	1	1	Wound in Leg	1		1	1		÷	;		1	-	:
Males	1	1	1	-:			- 5	1	- 1	1	;		1		1	1	Wound on Shoulder	1		9.	1			1		1	•	
Malos	:	10	1	-	1			1		1	1	10	-	01	10	00	B Wounds	1			1	_	1	1	;	:	-	:
					-						1			1	1			١						İ			1	ı

Exhibit R points out the specific sources of danger of death from casualties, according to the returns of deaths for 1877. A careful study of this exhibit should lead to greater caution on the part of persons exposed to certain casualties, thereby avoiding many deaths which seem to be caused by carelessness.

EXHIBIT R .- Deaths in Michigan in 1877, Compiled as Casualty.

CASUALTY,—CAUSES AS RETURNED.	Num- ber.	CASUALTY,—CAUSES AS RETURNED.	Num- ber.
Total number tabulated as Casualty in Table XVII	222	Fell out of a cradle	
Shot accidentally	19	Clothes caught on mill-shaft	
Killed accidentally	78	Thrown from a horse	l
Kick from a horse	13	Thrown from a barn frame	l
Falling in shaft	1	Accidentally burned	i
Blasted in mine	8	Straw stack falling on him	
Killed in mine	3	Shingle-jointer bursting	ł
Runaway team	1	Fall of post.	l
Killed in well	2	Rail falling across the neck	
Clothes taking fire in a field	1	Shipwreck	
Boiler explosion	3	Killed by horse	
Hurt in woods	1	Accidentally scalded	ł
Killed in woods	1	Leech-tub fell on her	
Falling limb	2	Run over by team	1
Fell between cars	1	Injury from a horse	
Explosion of kerosene lamp	1	Horse ran away	
fell through elevator	9	Punctured knee joint	•
Fell from bridge	1	Bean in throat	
Crushed by load of lumber	1	Fell from barn	
Fall in stone quarry	1	Fall of a stone	
Killed in foundry	2	Killed in stave-factory	
Lumber falling from R. R. car	1	Fell from chair	
Fall	18	Killed with threshing machine	
Fall from wagon	7	Explosion of gun	
Killed on rollway	8	Falling of wall	
Killed by log rolling over him	1	Killeed by sawing-machine	
Unloading logs	1	Killed in pulp mill	
rushed by logs	4	Killed by ice falling from caves of build-	
Fell from scaffold	2	ing	
Killed by team running over him	1	Accident by scalding with hot water	-
Run over by street car	1	Cut on tongue	•
fell off lumber pile	1	Falling in well	
Hanged while playing with clothes-line.	1	Sinking stone—caved in	
Fell down stairs	5	Killed—explosion	
Chock pulling out on vessel	1	Violent death	

In Exhibit 9 are shown certain statistics of the deaths by suicide in this State in 1877. There were 66 suicidal deaths reported for 1877,—46 males and 20 females. This is the largest number returned for any of the years 1869-77. More persons committed suicide by means of poison than by any other specified means.

EXHIBIT 9.—Certain facts concerning Persons Returned as having died by Suicide in Michigan during the Year 1877.

DATE OF DE.	ATH.		Condi-	G	Color.		37 - 4114	Wasan Wood
MONTH.	Day.	Age.	tion.	ber.	Color.	Occupation.	Nativity.	Means Used.
January	9	38	м.	M	w.	Mechanic	Canada	Not given.
January	81	54	Unk.	M.	w.	Farmer	Germany	Pistol-shot.
February	3	46	M.	м.	w.	Butcher	England	Not given.
February	3	46	M.	м.	w.	Merchant	Germany	Not given.
February	8	44	м.	M.	w.	Agent	New York	Cutting throat.
Pebruary	14	48	Unk.	M.	w.	Farmer	New York	Poison.
February	24	23	s.	F.	w.	Unemployed	Wisconsin	Morphine.
March	4	26	s.	M.	w.	Laborer	Michigan	Not given.
March	6	56	М.	M.	w.	Carpenter	Canada	Not given.
March	14	45	M.	M.	w.	Unknown	Canada	Not given.
March	21	55	M.	F.	w.	House-wife	England	Not given.
March	29	21	s.	M.	w.	Farmer	Zealand	Not given.
March	81	48	М.	M.	w.	Farmer	Michigan	Poison.
March	81	28	s.	М.	w.	Farmer	Michigan	Not given.
April	12	24	S.	M.	w.	Farmer's Son	Michigan	Polson.
April	21	67	S.	M.	w.	Farmer	New York	Drowning.
April	22	40	M.	M.	w.	Painter	New York	Hanging.
April	. 30	20	M.	F.	w.	Unemployed	Detroit, Mich	Not given.
<b>X</b> ay	4	20	s.	F.	w.	Seamstress	Michigan	Poison (Arsenic)
<b>M</b> ay	. 4	24	s.	M.	w.	Farmer	Ohio	Not given.
May	11	49	M.	M.	w.	Grocer	Prussia	Not given.
May	19	52	M.	F.	w.	House-wife	New York	Drowning.
May	19	50	s.	M.	w.	Laborer	Unknown	Not given.
May	. 25	19	s.	M.	w.	Farmer	Michigan	Not given.
May	. 81	16	s.	F.	w.	House-work	New York	Not given.
June	1	44	M.	M.	w.	Grocer	Germany	Not given.
Jane	. 4	23	s.	M.	w.	Unknown	Massachusetts .	Poison.
June	. 9	22	Unk.	M.	w.	Laborer	Michigan	Not given,
Jume	. 18	80	S.	M.	w.	Butcher	Germany	Not given.
June	. 20	53	Di- vorced.	M.	w.	Farmer	Germany	Paris Green.
July	. 8	64	M.	F.	w.	Farmer	Canada	Not given.
July	. 6	41	M.	M.	w.	Lumberman	New York	Not given.

EXHIBIT 9.—CONTINUED.—Suicidal Deaths, 1877.

DATE OF DEA	TH.		Condi-		1			
MONTH.	Day.	Age.	tion.	Sex.	Color.	Occupation.	Nativity.	Means Used.
July	10	42	s.	М.	w.	Lawyer	Scotland	Not given.
July	16	42	М.	F.	w.	House-keeper	New York	Poison.
July	16	15	s.	M.	w.	Laborer	Michigan	Paris Green.
July	<b>3</b> 0	18	s.	F.	w.	House-keeper	Michigan	Morphine.
August	1	88	M.	F.	w.	Unemployed	Netherlands	Not given.
August	1	15	s.	M.	w.	Unemployed	Canada	Hanging,
August	6	27	s.	F.	w.	Teacher	Michigan	Poison.
August	9	56	M.	M.	w.	Farmer	New York	Hanging.
August	10	52	M.	M.	w.	Farmer	New York	Poison.
August	16	51	M.	М.	w.	Carpenter	Prussia	Not given.
August	81	47	M.	M.	w.	Farmer	New York	Not given.
September	3	65	M.	M.	w.	Shoemaker	Germany	Not given.
September	20	24	8.	F.	w.	Not given	Ohio	Not given.
September	21	39	М.	F.	w.	House-keeper	Ohio	Poison.
September	27	18	S.	F.	w.	Unknown	Obio	Not given.
October	10	38	М.	M.	w.	Farmer	New Hampshire	Not given
October	16	49	M.	M.	w.	Hotel-keeper	Ireland	Poison.
November	4	24	S.	M.	w.	Farmer	Obio	Hanging.
November	4	77	M.	M.	w.	Farmer	New York	Shooting.
November	5	50	M.	M.	w.	Farmer	Germany	Cutting throat.
November	6	30	M.	M.	w.	Laborer	Canada	Drowning.
November	10	65	M.	M.	w.	Farmer	Germany	Not given.
November	22	19	s.	F.	w.	Unemployed	Detroit, Mich	Not given.
November	30	53	M.	M.	w.	Unknown	England	Not given.
December	1	30	M.	M.	w.	Book-keeper	New York	Laudanum.
December	2	45	w.	F.	w.	Unemployed	Canada	Not given.
December	11	44	M.	M.	w.	Harness-maker.	Unknown	Morphine.
December	11	29	М.	F.	w.	House-keeper	Detroit, Mich	Not given.
December	12	26	M.	M.	w.	Not given	Michigan	Not given.
December	16	58	M.	M.	w.	Saloon-keeper	Maine	Not given.
December	26	46	M.	F.	w.	House-wife	Germany	Drowning.
December	27	39	M.	M.	w.	Farmer	Ohio	Gun-shot.
December	28	16	8.	F.	w.	Student	Michigan	Poison.
December	Unk.	80	w.	F.	w.	Unknown	New York	Drowning.

EXHIBIT 9.—Continued.—Suicidal Deaths, 1877.

OCCUPATIONS		No.	OCCUPATION	3.	No.	OCCUPATION	<b>5.</b>	No.
Agents		1	House-keepers		. 4	Saloon-keepers		1
Book-keepers		1	House-wives		. 8	Seamstresses		1
Butchers		2	House-workers	<b></b>	. 1	Shoemakers	·	. 1
Carpenters		2	Laborers	•	. 5	Students	••••	] 1
Farmers		19	Lawyers		. 1	Teachers		1
Farmers' Sons		1	Lumbermen		. 1	Unemployed		6
Grocers		2	   Mechanics		. 1	Unknown		7
Harness-makers		1	Merchants		. 1			
Hotel-keepers	•••••	1	Painters	b	. 1	Total	•	66
NATIVITY.	-	No.	NATIVITY.		No.	NATIVITY.		No.
Canada		7	Michigan		. 15	Scotland		. 1
England		3	New Hampshire	- <b></b>	. 1	Unknown	<b></b>	2
Germany		9	New York		. 14	Wisconsin		1
Ireland		1	Netherlands		. 1	Zealand	<b></b> .	1
Maine		1	Ohio		. 6			<u> </u>
Massachusetts		1	Prussia	- <b></b>	. 2	Total		. 66
	Num	BER.		Num	BKR.		Num	BER.
MEANS USED.	Mules.	Fe- nucles.	MEANS USED.	Males.	Fe- males.	Means Used.	Males.	Fe- males,
Cutting Throat	2		Laudanum	1		Poison	6	5
Drowning	2	3	Morphine	1	2	Shooting	1	
Gun-shot	1		Paris Green	2		Not given	25	10
Hanging	4		Pistol Shot	1		Totai	46	20

The fifteen causes of death included in Table XVIII. are reported to have caused 7,217 deaths in this State in 1877, which is 55.86 per cent. of the deaths from all causes returned for the year. This per cent. is larger than for any previous year except 1870. Consumption stands at the head of the list of fifteen principal causes of death, as having caused more deaths in Michigan in 1877 than any other disease, 12.88 per cent. of all the deaths returned having been attributed to that cause.

TABLE XVIII.—Order of Succession of Fifteen Principal Conditions and Causes of Death in Michigan in 1877, according to the Returns, Exhibiting for each Specified Condition and Cause, by Sex, the Number of Deaths, and the Per Cent. of Deaths from each Cause to Deaths from All Causes.

		PER CENT.	ATHS.	ER OF DE	Nume	SPECIFIED CAUSES AND	Ä.
Female	Males.	Total.	Females.	Males.	Total.	CONDITIONS, 1877.	ORDER.
15	10.63	12.88	933	726	1,664	Consumption	1
4	5.84	5.57	290	899	a 720	Stiil-born	2
4	4.88	4.59	294	299	593	Diphtheria	3
8	3.63	3.79	241	248	489	Old Age	4
•   •	3,85	3,60	202	263	465	Pneumonia	5
8	8,43	8.45	212	234	446	Fever, Typhoid	6
. 3	2.97	8.13	200	203	b 401	Scarlet Fover	7
9	8.00	2,86	165	203	870	Cholora Infantum	8
. 2	2.84	2.84	172	194	ъ <b>367</b>	Heart Disease	9
. 2	2.75	2.55	-141	188	329	Apoplexy and Paralysis	10
1	2.62	2.81	119	179	298	Convulsions and Fits	11
2	2,26	2.25	187	154	291	Brain, Inflammation of	12
. 2	2.23	2.24	136	152	d 290	Diarrhea	13
2	1.82	2,05	141	124	265	Cancer	14
1	1.89	1.75	97	129	226	Bowels, Inflammation of	15
57.	54.15	55,86	3,485	3,697	• 7,217	Total	-
100.0	109.00	100.00	6,040	6,827	f 12,919	All Causes	

Includes 31 unknown sex.
 Includes 1 unknown sex.
 Includes 2 unknown sex.
 Includes 36 unknown sex.
 Includes 52 unknown sex.

Exhibit T shows the fifteen principal causes of death in Michigan during each of the years 1872–1877, in order by number of deaths from each cause, those causes being first in order which were reported to have caused the largest number of deaths. An examination of the exhibit will show quite a similarity in diseases included. Diphtheria appears first in 1874, and, with the exception of the year 1875, has appeared nearer the top of the exhibit each year, until in 1877, as a cause of death it is second only to consumption in the number of deaths which it was returned as having caused, although the number of still-births, as corrected by means of the returns of births, is larger than the number of deaths returned from diphtheria.

EX	HIBIT T.—6	rder	EXHIBIT T.—Order of Succession of Fifteen Principal Causes of Death in Michigan during each of the Years 1872-77.	Fift.	een Principal C	ause	es of Death in Mi	ichig	an during each	of th	16 Years 1872-	.77.
OBDEE.	1872		1873.		1874.		1875.		1676.		1877.	
7	Consumption	1,467	Consumption	1,447	1,447 Consumption	1,302	1,392 Consumption	1,479	1,479 Consumption	1,590	1,590 Consumption	1,664
2 P	Pneumonia	ਛ	Pneumonla	98	706 Pneumonia	90 100 100 100 100 100 100 100 100 100 1	800 Pncumonia	745	745 Still-born	919	646 Still-born	730
8	8 Typhoid Fever	620	Typhold Fever	223	677 Typhoid Fever	019	610 Still-born	69	629 Pneumonia	627	627 Diphtheria	263
<b>*</b>	4 Scarlot Fover	199	Scarlet Fever	578	578 Still-born	191	464 Typhoid Fever	£33	433 Old Ago	483	483 Old Ago	99
<u>0</u>	5 Dysentery	456	Old Age	82	428 Scarlot Fover	440	440 Scarlot Fever	3	423 Typhoid Fover	426	426 Pnoumonia	<b>4</b> 65
9	6 Diarrhea	437	Spinal Fever	8	Old Age	438	428 Old Age	873	873 Scarlet Fever	838	399 Typhoid Ferer	917
0 2	7 Old Age	90	Diarrhea	900	356 Diarrhea	865	865 Cholera Infantum.	8	230 Apoplexy and Paral	337	337 Scarlet Fever	<b>707</b>
8	8 Cholera Infantum.	<b>30</b>	Brain, Infl. of	333	333 Hoart Discaso	830	820 Heart Disease	8	289 Cholera Infantum.	831	831 Cholcra Infantum.	870
<u>n</u>	9 Brain, Infl. of	380	Heart Discase	818	815 Dysentery	8	302 Diarrhea	883	283 Heart Discaso	320	320 Heart Discaso	367
<u>0</u>	10 Convulsions and Fits	815	Dysentery	818	313 Cholora Infantum.	818	278 Apoplexy and Paral	528	259 Diphtheria	311	311 Apoplexy and Paral	820
11 Sr	11 Small.pox	305	302 Cholora Infantum	308	306 Brain, Infl. of	193	261 Convulsions and Fits	238	238 Diarrhea	ğ	304 Convulsions and Fits	8
12 H	12 Heart Disease	301	Convulsions and Fits	808	306 Convulsions and Fits	823	238 Brain, Ind. of	283	232 Brain, Infl. of	275	275 Brain, Infl. of	183
13 B	13 Bowels, Infl. of	127	Bowels, Infl. of	282	285 Apoplexy and Paral	335	232 Bowels, Infl. of	818	218 Convulsions and Fits	275	275 Cancer	202
14 A)	14 Apoplexy and Paral.	225	Childbirth	75	254 Dropsy	228	226 Casualty	212	215 Cancer	241	241 Dlarrhea	302
13 CI	15 Childbirth	218	218 Apoplexy and Paral.	122	251 Diphtheria	213	213 Dropsy	215	215 Bowels, Infl. of	289	289 Bowels, Infl. of	226
												I

TABLE XIX.—Deaths from Ten Specified Causes during the Year 1877, Exhibiting the Number of each Sex, Total Number in each Month, and at different Periods of Age, according to the Returns.

-					CAU	ses of I	DEATH,-	1877.			
8	EX, MONTHS, AND AGES.	Cancer.	Cepha- litis.	Croup.	Diar- rhea.b	Diph- theria.	Dysen- tery.c	Monsies.	Scarlet Fever.	Typhoid Fever.	Whoop- ing Cough.
_	(Total	265	291	164	290	593	221	62	404	446	181
н	Males	124	154	95	152	299	108	33	203	234	61
SEX.	Females	141	137	69	136	294	113	29	200	212	70
	Unknown		 		2				1		
	January	16	23	16	6	31	1	2	32	14	6
	February	13	18	25	8	26	2	3	33	13	6
	March	23	16	8	8	88	4	10	81	25	6
	April	19	23	10	6	25	2	12	33	18	7
	May	17	20	9	7	32	5	11	40	24	12
	June	24	20	8	23	24	8	3	35	9	8
MONTHS	July	36	80	4	55	33	25	8	28	18	19
COM	August	23	42	7	96	40	77	3	32	51	23
2	September	25	41	13	52	81	70	1	29	83	16
	October	19	17	25	25	105	16	3	35	83	9
	November	26	23	24	9	84	9	5	30	58	9
	December	24	17	20	4	73	5	5	46	43	11
	Unknown		1		1	1		ı		2	
	Av. Month	[22	24	14	24	49	19	5	34	87	11
	Under 5	13	184	127	242	252	176	41	261	51	120
	5 to 10		26	31	10	210	7	9	96	34	8
	10 to 15	1	9	2	2	86	1	3	25	29	
	15 to 20		11		1	20	8		6	64	1
	20 to 25	4	12	1	1	6	2	2	6	46	1
	25 to 30	7	12		3	7		2	3	87	
	80 to 85	5	5		2	2	1	2	<b> </b> -	16	
	85 to 40	13	4			2	2		1	14	
AGES.	40 to 45	14	2		2	1	1			26	
ΦØ	45 to 50	26	6		7	1	3			24	
	50 to 55	81	2				2		2	20	
	55 to 60	82	3	1	5		2			11	
	60 to 65	29	4		2	<b> </b>	1			19	1
	65 to 70	81	8	1	1	2	6			15	
	70 to 75	27	2		8	1	4	1	1	14	
	75 to 80	14	2		8	ļ	5	1		7	
	89 and over	13	1		2		5			6	
	(Unknown	5	8	1	4	3	1	1	8	13	

a Includes 19 Membranous Croup. b Includes 21 Chronic. c Includes 5 Chronic.

TABLE XX.—Per Cent. of Deaths during the Year ending December 31, 1877, from each of Ten Specified Causes, to Deaths from All Causes; and Per Cent. of each Sex, of Deaths in each Month, and at different Periods of Life to Total Deaths from each Specified Cause.

		l		CAUSES	OF DEA	ти,—1877	PER C	ENT OF	TOTAL.		
8	EX, MONTHS, AND AGES.	Cancer.	Cepha- litis.	Croup.	Diar- rhea.	Diph- theria.	Dysen- tery.	Measles.	Scarlet Fever.	Typhoid Fever.	Whoop- ing Cough.
Per	Ct. of All Causes	2.05	2.25	1.27	2,24	4.59	1.71	.48	3.13	3.45	1.01
	( Males	46.80	52.92	57.93	52.41	50.42	43.87	53.23	50.25	52.47	46,56
SEX.	Females	53.21	47.08	42.07	46,90	49.57	51.13	46.77	49.50	47.53	53,44
60	Unknown				.69				.25		! 
	January	6.04	7.90	9.76	2.07	5.23	.45	3.23	7.92	3.14	4,58
	February	4.91	6.19	15.24	1.03	4.38	.91	4.84	8.17	2.91	4.58
	March	8,68	5,50	4.88	1.03	6.41	1.81	16.18	7.67	5.61	4.58
	April	7.17	7.90	6. 10	2,07	4.22	.91	19,35	8. 17	4.04	5.34
	May	6.42	6.87	5.49	2.41	5.39	2.26	17.74	9,90	5.38	9.16
	June	9.06	6.87	1.83	7.93	4.03	3.62	4.84	8.66	2.02	6.11
THS.	July	13,58	10.31	2.44	18.97	5.56	9.93	4.84	6.93	4.04	14,50
MONTHS.	August	8.68	14.43	4.27	33,10	6.75	34.84	4.81	7.92	12.11	16,79
×	September	9.43	14.09	7.93	17.93	13.66	31.67	1.61	7,18	18.61	12.21
	October	7.17	5.84	15.24	8.62	17.71	7.24	4.84	8.66	19.06	6.87
	November	9.81	7.90	14.63	3.10	14.17	4.07	8.06	7.43	13.00	6,87
	December	9.08	5.84	12,20	, 1.38	12,31	2.26	8.06	11.89	9,61	8.40
	Unknown		.34		.35	.17		1.61		.45	
	Av. Month	8.33	8.33	8,33	8,33	8.33	8.33	8,33	8,33	8.33	8.33
	( Under 5	4.91	63.23	77.44	83.45	42,50	79.64	66, 13	64.60	11.43	91.60
	5 to 10		8.93	18.90	3.45	35.41	3.17	14.52	23.76	7.62	6.11
	10 to 15	.38	3,09	1.22	.69	14,50	.45	4.84	6. 19	6.50	
	15 to 20		3.78		.85	3.37	1,36		1 49	14.35	.76
	20 to 25	1.51	4.12	.61	.35	1.01	.90	3,23	1.49	10.31	.76
	25 to 30	2.64	4.12		1.03	1.18		3,23	.74	€.30	
	30 to 35	1.89	1.72		.69	.34	.45	8.23		3.59	
	35 to 40	4,91	1.37			.34	.90		.25	3.14	
AGES.	40 to 45	5.28	.69		.69	.17	.45			5.83	
<b>V</b> 0	45 to 50	9 81	2.06		2.41	.17	1,36			5.38	
	50 to 55	11.70	. 69				.90		.50	4.48	
	55 to 60	12.07	1.03	.61	1.72		.90			2.47	
	60 to 65	10.94	1.37		.69		.45			4.26	.76
	65 to 70	11.70	1.03	.61	.35	.34	2.71			3.36	
	70 to 75	10.19	.69		1.03	.17	1.81	1.61	.25	3.14	
	75 to 80	5.28	.69		1.03		2.26	1.61		1.57	
	80 and over	4.91	.34	.61	.69		2.26	· · · · · · · · · · · · · · · · · · ·		1.35	
	Unknown	1.89	1,03		1.38	.51		1.61	.74	2.91	
	<u></u>	<u></u>	A Exc	luding	leaths i	nunkno	wn mon	th.	·		

a Excluding deaths in unknown month.

Cancer.—Two hundred and sixty-five (265) deaths were returned as having been caused by cancer in Michigan in 1877. The number of deaths from this disease in each of the years 1869–1877, least number first in order, is as follows: 1871, 105 deaths from cancer; 1869, 113; 1870, 120; 1872, 130; 1873, 171; 1874, 188; 1875, 202; 1876, 241; 1877, 265. From this it may be seen that since the year 1869, with the exception of 1871, there has been a constant increase in the number of deaths from cancer, until in 1875 the number was larger than in any previous year.

number was larger than in any previous year.

July shows a larger proportion than any other month of the year 1877; and of the different ages, the largest proportion appears for the period between the

ages of 55 and 60 years.

Exhibit S shows the part of body affected by cancer, among the decedents from this disease, so far as specified in the returns. In 133 cases of the 265 deaths from cancer the part affected was stated,—just one more than half the total number returned. The stomach was the organ most generally affected by this disease in 1877, as has been the case in previous years; and many more males than females died from cancer of stomach in 1877.

EXHIBIT S.—Deaths from Cancer Returned as having Occurred in Michigan during the Year 1877, indicating part of body affected.

AS RETURNED.	Total.	Males.	Fe- male	As Returned.	Total.	Males.	Fe- males.
Cancer of Stomach	78	49	29	Cancer of Lip	1	1	
Cancer of Head	1		1	Cancer of Œsophagus	1		1
Cancer of Breast	14	<b> </b>	14	Cancer of Stomach and Liver.	1	1	
Cancer of Womb	5	<b> </b>	5	Encephaloid Cancer	1		1
Rose Cancer	3	İ	3	Cancer of Tongue	1	1	
White Cancer	1		1	Scrofula Cancer	1		1
Cancer of Face	5	4	1	Cancer of Eye	1		1
Internal Cancer	1		1	Cancer of Nose	1	1	•••••
Cancer of Head and Face	1	1		Cancer of Lungs	1	1	
Cancer of Mouth	3	2	1			·	
Cancer of Arm	1	1		Total Specified	133	68	63
Cancer of Liver	3	2	1	Cancer (Unspecified)	132	56	76
Cancer of Neck	1	1					
Cancer of Bowels	7	3	4	Aggregate	265	124	141

Exhibit Z shows the number of persons returned as having died in Michigan in 1877 from causes compiled as unknown. In some cases the cause was not stated, and in some the assigned cause was so indefinite that it could not be tabulated other than unknown. A careful examination of the exhibit should result in fewer causes of death compiled as unknown.

EXHIBIT Z .- Causes of Deaths in Michigan in 1877, Compiled as Unknown.

CAUSES AS RETURNED.	Total.	Males.	Fe- males.	Unk.	CAUSES AS RETURNED.	Total.	Males.	Fe- malcs.	Unk.
Total number compiled as Unknown in Table XVII	1,392	744	636	12	Inflammation of blood	1	1		
Armonia	1	1		_	Congestive disease  Natural death	3	1	2	
Congestion	15	10	5		Congestion of the whole system	1		1	ļ
Riag	1		1		Complication of diseases	2	1	1	<b> </b>
Sick from birth	1		1		Exhaustion	3	2	1	ļ
Clears	2	1	1		Complications	,		1	l
H5pertrophy	1	1			Chronic disease	1	1		<u> </u>
Natural causes	1		1		Mesenteric glands	ı		1	l
Perlositic	2		2		Stagnation of blood	1	1		l
Female complaint	2		2		Congestion of L	1	1		l
Humer complaint	1	1					_	_	
Membranous	1	1			Unknown and not given	1,348	720	616	19

Cephalitis.—The returns of deaths show that 291 deaths occurred from cephalitis (inflammation of the brain) in this State in 1877, which is 2.25 per cent. of the deaths from all causes. The male decedents from this disease were in excess of the female decedents in each of the years 1869–1877. A large proportion of the deaths from cephalitis were returned for the warm months, nearly two-fifths having died during the months of July, August, and September; and 63.23 per cent. of the decedents were under 5 years of age.

Measles.—This disease prevails very largely among children under 5 years of age, as shown by the returns for each year; and in 1877, the largest per cent. is shown for the month of April. During the year 1877, only 62 deaths from measles were returned, which is the smallest number returned for any previous year except 1870 and 1874.

Whooping-cough.—There were 131 deaths from whooping-cough returned for the year 1877, which is 1.01 per cent. of the deaths from all causes. This disease was most prevalent during the months of July, August, and September, 43.50 per cent. of the total number of deaths from whooping-cough during the year having occurred during these three months. Nearly all of the decedents from this disease were children.

## METEOROLOGICAL CONDITIONS, AND THEIR RELATIONS TO DEATHS.

Exhibit 10 shows the average annual and monthly temperature for each of the years 1868-1877, and the average for the ten years ending with 1877, at the Michigan Agricultural College. It may be seen that, with the exception of 1870 and 1871, the average temperature for the year 1877 was higher than for any of the previous years.

31-1877.

EXHIBIT 10.—Temperature.—Average by Years and by Months, for the Years 1868 to 1877, inclusive, at the Agricultural College, near Lansing, Michigan, and near the center of the thickly-settled part of the State. (Results of Observations by Prof. R. C. Kedzie.)

YEARS.	ANNU-	A	VERA	E TE	MPERA		, STAT BY <b>M</b> O		DEGR	ees F	AHREI	(HEIT,	
	AVER-	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1863	46.35	19.00	18.72	37.80	43.68	59.08	68.46	77.19	70.33	58,77	45.19	36.77	21.1
1869	46.27	29.38	26.66	27.60	45.70	56.02	64.45	70.85	70.58	63.45	40.80	32.05	28.1
1870	49.11	25.37	24.25	30,28	50.89	64.32	70.87	74.40	70.11	63.66	52,45	88,40.	24.8
1871	47.93	24.75	25.65	38,18	50.13	61.39	68.21	70.60	71.19	58,10	53.91	31.95	21.1
1872	45.54	21.59	21.34	24.75	47.39	58.48	71.82	74.91	71.22	62.03	47.44	29.80	15.7
1873	44.54	15,87	19.10	28.30	43.17	56.98	70,60	70.82	69.49	57,38	44,68	28,49	29.5
1874	47.32	27.70	25.51	82.30	86.87	59.58	70.61	72.02	69.39	62.85	49.10	85.00	26.9
1875	43.09	12.87	8,35	26.20	41.11	60,82	66.57	69.67	65.48	58,50	42.93	82.96	81.5
1876	46.17	30.22	27.38	30.55	44.16	57.95	68.14	72.48	71.55	56.80	43.74	36.33	15.2
1877	47.42	18.07	82.31	24.51	46.16	58.25	65.93	71.48	68.46	61.28	50.88	85,94	36.5
Av. for 10 Years	46.37	22.48	22,93	30,05	44.88	59.20	68.57	72,89	69.78	60.23	47.11	33.70	25.0

<sup>•</sup> Average for 10 years ending with 1877.

TABLE XXXI.—TEMPERATURE.—Exhibiting the Mean Temperature, the Highest and Lowest Temperature, the Monthly Range, the Mean Daily Range, the Mean Range from Day to Day, and the Greatest Rise and Fall of Thermometer in 24 hours and in 14 hours, for each Month of the Year 1877, at the Agricultural College, near Lansing, Michigan.

					1	CEMPE	RATURE.	-FAHREN	IEIT,	, 1877.			
YEAR AND MONTHS.	3 Daily Ob-	TH	GISTI ING ERMC	ж.		BAGE NGE.	IN 24 F	T CHANGE ours,—2 o 2 p. m.	IN	14 Ho	CHANGE URS.—7 9 P. M.	REGIST THEEMON GREA CHANGE HOU	ETER,— TEST IN 24
1877.	Average of 3 servations, P. M., and 9	Highest.	Lowest.	Range.	Dally,—7 A. M. to 9 P. M.	From Day to Day, -2 P.	Degrees of Rise and Fall	Day of Month.	of	rees Rise Fall.	Day of Month.	Degrees of Change.	Day of Month.
Year 1877	47.42	93	-14	107	15.12	17.53	F. 34	{ M'r.17 } Aug. 2 }	R.	33	Mar. 13	42	Apr. 23
January	18.07	52	-9	61	12,58	16.06	F. 33	28	R.	32	30	34	29
February.	32.31	56	10	46	14.79	17.71	F. 27	19	R.	26	20	33	19
March	24.51	51	-14	65	15.29	17.29	F. 34	17	R.	33	13	41	16
April	46.16	81	18	63	16.13	19.40	R. 27	22	F. &	R. 26	1, 6, 7	42	22
May	53,25	90	26	64	16.52	18.13	R. 25	14	R.	25	14	33	13, 27
June	65.93	89	40	49	17.37	19,00	F. 28	22	F.	28	22	33	21
July	71.43	91	43	48	18.39	20.42	R. 29	21	R.	22	21	37	10, 16
August	69.46	93	43	50	17,45	19.48	F. 34	2	R.	30	11	40	
September	61.28	85	38	47	18.97	21.10	R. 27	4	R.	27	4	33	
October	50.83	87	26	61	13.71	17.82	F.&R. 32	4, 6	R.	32	6	32	1 2
November	35.24	55	4	51	11.49	13.18	R. 31	. 6	R.	31	6	28	(
December.	36.57	58	13	45	8.77	10.73	F. 21	13, 16	R.	20	14	22	11, 12

Diagram No. 6.

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4					3/			11			
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4	-	-	-	1		-			13		
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0	1.9	13									21
8	X8.52	121									-
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EXHIBIT 11.—Absolute Humidity.—Grains of Vapor in a Cubic Foot of Air, by Months, for the Years 1868 to 1877, inclusive, at the Agricultural College, near Lansing, Michigan.

YEARS.	ANNU- AL AVER-			BAINS	OF VA	POR IN	CUBIC	FOOT	OF AI	R, BY I	HTROL	8.	
	AGE.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1968	3.31	1.10	1.18	2.50	2.61	8.78	3.50	8.51	5,99	4.20	2.75	2,28	1.3
1869	3.42	1.93	1.78	1.49	2.56	8.65	5.52	6.49	6,56	5.18	2.56	1.89	1.5
1870	3,90	1.50	1,35	1.76	3.06	4.92	6.45	7. 19	6.54	5.45	8.95	2.23	1.70
1871	8.56	1.63	1.59	2,28	8.00	4.53	5.77	6.35	6.43	4.41	8,48	1.89	1.8
1872	3.70	1.31	1.98	1.32	2,99	4.29	6.78	7.33	7.15	5.57	8,40	1.89	1.13
1878	8.36	1.14	1.48	1.52	2.71	4.00	5.85	6.45	6.29	4.50	2.92	1.78	1,8
1874	8,36	1.58	1.55	2.00	2,08	8.77	6.07	6.00	5.75	4.79	8.15	2.06	1.50
1875	8.11	0,92	0.73	1.63	2.12	8.74	5.17	5.91	5.22	4.38	2.57	1.84	2,0
1876	8.40	1.88	1.57	1.78	2.26	8.98	5.95	6.76	6.81	4.43	2.56	2.26	1.00
1877	8.45	1.19	1.85	1.53	2,47	8.79	5.32	5.76	5,74	4.82	8,59	2,22	2.31
Av. for 10 y'rs.	8,46	1.42	1.42	1.78	2.59	4.04	5.64	6.68	6.20	4.76	8.09	2,08	1.0

<sup>•</sup> Average for 10 years ending with 1877.

Diagram No.7.

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Diagram No. 8.

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EXHIBIT 12.—Pressure of the Atmosphere.—Observations of Barometer reduced to freezing point, and corrected for instrumental error (+.12) previous to 1875, for each of the years 1868 to 1877, inclusive, and the Average for 10 years ending with 1877, at the Agricultural College, near Lansing, Michigan. (Based upon Observations made by Prof. R. C. Kedzie.)

ARS.	ANNU-	1	PRESSUE	E OF T	ie Atm	OSPHER		ED IN I: ONTHS.	NCHES O	F MERC	UBIAL (	COLUMN,	
YEA	AVER-	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1863	29.051	29,014	29.134	29.007	29.031	28.942	29.106	29.032	29.063	29.056	29.120	29.029	29,07
1869	29.007	28,950	28.959	29,054	28,947	28,869	28,976	28,961	28,088	29.140	29.040	28,963	29.11
1870	28.996	28.987	28,927	28.965	29.022	28.977	29.000	28,956	29.010	29.142	29,059	29.023	28.89
1871	28,988	29.023	28,936	28.930	28.842	29.024	28,985	29.011	29.027	29,158	29.029	29.084	29.00
1872	29.007	28.958	28,962	29,031	28.972	28.983	28.999	29.044	29,087	29.010	29.099	29.001	29,11
1873	28.994	28,993	28,967	28.972	28,918	28,946	28,960	29.034	29.047	29.048	29.037	28,953	29,04
1874	29.055	29.168	29.048	29.015	29.061	28,984	28,998	29.027	29.044	29.066	29.073	29.057	29.12
1875	28,998	29,005	28,875	28,844	29,047	29.061	29.029	29.044	29,025	29.031	29.016	29.654	28,95
1876	29,010	29,073	29.063	28.929	29,000	29.000	28.911	29.009	29.048	28.995	28,929	28,953	29,20
1877	29,066	29.057	29,124	29,981	28.974	29.056	29.020	29,062	29.046	29.121	29,077	29.099	29.18
<b>▲</b> ∀▲	29.017	29.023	29,000	28,973	28.961	28,986	28.998	29.018	29.049	29.077	29.048	29.024	29,07

Average for 10 years ending with 1877.

TABLE XXX.—Exhibiting, for the Year, for each Month, and an Average Month, during the Year 1877, the Mean Hight and Range of Barometer, the Direction of the Prevailing Winds, the Relative Humidity, the Per Cent. of Cloudiness; the Number of Days on which it Rained or Snowed, and the Depth of Rain and Melled Snow, in Inches, at the Agricultural College near Lansing, Michigan.

2010	Reduced to 32°,-Average.	ter.	DA	Ya o	r PR	EVAI	LING	WIN	DS, 18	77.	ty, or Per on,-Av.	Cloudiness of ge.	ays on which Snowed.	Snow, in	Ozor Rela Maxi	TIVE.
YEAR AND MONTHS, 1877.	Barometer, Redu Fabrenheit, Av	Range of Barometer.	North.	North-east.	East.	South-east.	South.	South-west.	West.	North-west.	Relative Humidity, or Cent. of Saturation,-	Per Cent. of Clou	Number of Days on it Rained or Snowed	Rain and Melted Inches.	Day,—7 A. M. to	Night, -9 P. M.
Year, 1877	29,066	1.539	12	54	11	25	23	136	46	46	80	54	134	37.42	3.66	3.33
January	29.057	.896	1	2		2	- 5	15	5	1	91	64	9	1.33	4.87	5,03
February	29.124	1,007	4	1		1	3	10	4	9	85	45	0	.00	4.54	4.14
March	28,981	1.119	2	3	2	4	2	8	6	3	91	63	22	5.60	5.29	6.06
April	28,974	.789		9	2	2		12	2	1	70	50	8	4.14	3.70	4.27
May	29.056	.676		8		1		13	1	7	66	34	7	2,23	3,29	2,94
June	29.020	.513	1	1	1		2	16	6	3	75	51	14	3.53	3.17	2.90
July	29.062	.655	1	2	1	3	3	12	4	5	70	44	6	2.25	2.71	1,77
August	29.046	.401	1	5			1	10	7	7	78	49	10	6.57	3.42	1.03
September	29, 121	.451	1	6	1	2	1	13	1	4	80	36	7	1.33	2.93	1.53
October	29.077	.695		6	2	2	2	8	4	7	83	66	15	5,69	3,20	3.19
November	29.099	1.143	1	4	1	3	2	8	4	5	87	73	22	8,67	3.60	3.73
December	29, 180	.832		,7	1	5	2	11	2	1	89	71	14	1.03	3.17	3.37
Monthly Average	29,066	.765	1	5	1	2	2	11	4	4	80	54	11	3.12	3,66	3.33

Prevail-ing Winds. Ä. : 8. E. TABLE XXXII. - Some Meleorological Conditions at Certain Localities in Michigan, by Months, during the Year 1877. ¥ MARQUETTE, MICH. Total Rain-fall, in Inches. 27.52 3.31 9.8 6.56 56 4.75 2.30 4.97 3.21 Average Temper-ature,— 41.83 85.38 £.3 Average Barome-ter. 28.835 29.965 20.037 29.834 **59.89** 29.930 29.965 170.03 ing Winds. N.W. 8. ₩. 8. W. × × ¥ ≱ တ် œ တံ GRAND HAVEN, MICH. Total Rain-fall, in Inches. 36.03 1.42 3.5 0.0 3.15 4.48 §..0 4.18 1 52 0,67 6.45 8.8 6.47 3.97 Average Temperature,— 67.00 48.56 A verage Barome-29.873 29.057 29,997 29.933 20.856 29,087 29.63 ë. Prevail. ing Winds. z ż × z, ż œ တ် œ ż ø, × Total Rain-fall, in Inches 31.61 88 8.0 9. ESCANABA, MICH. o. 83 5.55 2.66 2.3 7.19 3.78 1.83 33.53 Avorage Temperature,— Fabr. 42.58 42.58 Average Barome-ter. 29.990 89.890 30.08 Prevall-ing Winds. 8. W. 8. W. 8. ₩. 8. W. 8. W. N.E. 8. W. ₩. ĕ ĸ ĸ × တဲ့ တ် øż Total Rain-fall, in Inches. 85.23 4.5 23. 8 8. 1.57 7.30 8.0 4.73 2.94 DETROIT, MICE. 0.0 8.27 Average Temper-ature,— Fabr. 49.36 57.70 67.30 64.60 40.56 Average Barome-ter. 29.997 30,001 29.883 20.906 29.836 20.986 29.960 29.931 29,991 -1877..... January..... March..... June .... October. December ..... February ..... A pril.... September..... Average Month..... Angust..... MONTHS, 1877. YEAR AND November .....

32

b Twenty.four days' observations. . Twenty three days' observations.

VITAL STATISTICS OF MICHIGAN, 1877. 28.936 28.874 28.876 PRESCRE OF ATMOS.
PHERK, INCHES OF
MERCURY.
(REDUCED TO 32° F.) 8 1.58 8 88 306 Ξ RANGE OF BAROMETER. .307 305 88 2.157 83 8 628 30.2 Jenuay.

tions, at the Agricultural	tural College, near Lansing, and near the center of the thickly-settled part of the Slate.	ear La	ısing,	and n	ear th	e cente	r of the	thickl	y-settl	d par	of the	s State	•		
YEARS 1862-1877 IN ORDER BY		DEATHN Веровтер	_	TEMPERATURE,—FAHR.; MEAN OF 3 DAILY OBSERVATIONS,—7 A. M., 2 P. M., AND 9 P. M.	MPERATURE,—FAH MEAN OF 3 DAILY SERVATIONS,—7 A. 2 P. M., AND 9 P. M.		HUNIDI PITRER, 1	HUMIDITY OF ATMOS. PHEBE, ETC.,—MONTHLY AVERAGES.		OZONE,—RELA- TIVE. MAXIMUM = 10.	RELA: t = 10.	nches.	PRESSI PRESSI (REDU	PRESSURE OF ATMOS- PHERE, INCHES OF MERCURY. (REDUCED TO 32° F.)	rwos. 8 or
PER CENT. OF REPORTED UEATHS FROM ALL CAUSES TO	a,4)na		ol sdi sinsi	AVERAGE RANGE.	M N			-aV to		.к.	.к.л	I nl ,won	RANGE OF BAROMETER.	Z OF	
ESTIMATED INHABITANTS, Year of Greatest Death- rate First.	dadai bəsanilsa	Zamber.	Per Cent. of Deal Estimated Inhabi	Daily.	From Day to Day, 42 P. M. to 2 P. M.	. 988197.А	Relative Humidity	Force or Pressure por, in Inches.	Weight, in Grains, por in Cubic Foot	ч 2 03.к .А 7—,ү <b>г</b> (I	Уівыі,—9 р. м. to 7	Rain and Melted S	.leunaA	Average Daily.	Аустаке Ргеяниге.
٠,	1,855,843	14,258	3.03	14.37	17.67	44.54	88	703.	85 85 85	4.02	4.68	31.745	1.307	Ξ.	28.874
187.5 187.5 187.5	1,297,473	13,371	1.03	15.31	18.14	45.54	83	.327	3.70	58 8	<b>7</b> 7.7	26.953	1.902	<u> </u>	28.867
41	1,134,252	10,766	16.	17.11	19.03	c 49.10	8	14.	8			37.757	1.360		28.876
Average	1,340,203	716,11	<b>%</b>	15.31	18.06	46.35	8	305	9	9.50	5.5	30.676	2.157	1.58	28.936
1874.	1,422,578	12,500	88.	15.65	18.27	47.05	78	\$.	38.8	4.10	3.99	22,930	2.009	330	28.035
.2.2.7	1,057,608	9,145	<b>8</b> .	12.00		46.77	8	305	3.49	Ì		33,153	1.660	:	28.887
28.7 8.6 8.6	1,659,145	12,576	.81	13.60	16.33	e 46.17	81	300	3.40	89.08	<b>=</b>	30.553	1.840	.138	20.010
tina 1875.	1,489,297	11,990	.81	15.34	17.55	• 43.09	19	.267	3.11	₹.53	20.9	28.437	1.628	306.	20.003
1877	1,632,269	12,919	۶. ا	15.12	17.53	47.42	80	586	5	99.	8.33	87.420	1.539	1.09	29.066
[ 1871	1,239,825	9,738	82.	16.52	19.97	47.93	80	.815	9.56	1		27.210	G.079		88. 88.
a Population catimated from Censuses of 1860 and 1870,  Sec foot.note to Exhibit K, page 2M.  Receptions to the proposition that the temperature was less than the average in years in which the death-rate was greater than the average, and vice tersu.	rom Censuses of 1860 and 1970, t.K. page 2M. ostilon that the temperature	80 and 187	n, owns &	cee than	the av	erago in	years ir	which	the dea	th.rate	was pre	afer tha	n the a	romge, a	nd více

12 to 1

PRESSURE OF ATMOR- PHERE.—INCHES OF MERCURY. (Reduced to 32° F.)		Average Pr	.109 29.066	.056 8 29.046	.073 29.121	. 105 29.07	39.350	.109 29.066	.152 4 29.099	.083 29.062	.151 28.951	.110 28.97	.083 29.056		. 122 8 29. 124
PRESSU PHERE M (Reduc	RANGE OF BAROMETER.	Monthly, and Year.	1,633	<del>-</del>	.451	.695	.83	.78	1.143	3.	1.119	08.	929.	.513	1.007
al ,wons	delted nches.	f bna nlasi I	37.42	. 6.57	1.38	e 5.60	3.03	3, 12	3.67	• 225	9.6	4.14	<b>23</b>	8.53	8
.RELA. E. M=10.	оз .ж	Уівћі.—9 р. .к.л Г	883	1.63	1.53	3, 19	f 8.37	3.33	3.78	f 1.77	90.9	4.27	1 2.94	2.80	<b>4</b> .1
Ozone,—Rela- Tive. Maximum=10.	2 01 .1	L. Y. T. Zad	3,66	3,49	2.93	3.20	3.17	3.66	7 8.60	1 2.71	5.39	3.70	- 8.29	5.17	7.
HUMIDITY ATMOSPHERE, 2,—MONTHLY AVERAGES.	n Cu-	Weight,in G of Vapor i ble Foot of	3,45	5.71	4.83	3.59	9.30	3.45	2.99	5.76	1.53	2.47	3,79	5,32	1.85
HUMIDITY OF ATMOSPHERE ETC.,—MONTHLY AVERAGES.	Cent.	Relative Ho ty, or Per of Saturati	88	22	80	53	68	80	18	2	16	2	8	22	:2
: MEAN IONS,— P. M.		.928797A	47.42	68,46	61.28	50.83	26.57	47.42	35.24	d 71.43	19.75	46.18	d 58.25	7 66.98	39.31
TEMPERATURE, PARE; MEAN OF 3 DAILY OBSERVATIONS, 7 A. M., 2 P. M., AND 9 P. 31.	RANGE.	Vacum Day,— to Day,— 2 P. M. to 2 P. M.	17.53	19.48	21.10	17.82	e 10.73	17.53	13.18	c 20.42	17.29	e 19.40	e 18.13	c 19.00	c 17.71
EXPERATUOFS DAILY 7 A. M., 2 P.	Average Range	Dally.	15.12	17.43	18.97	13.71	8.77	15.12	11.48	18.30	15.29	16.13	16.52	17.87	11 79
	<u></u>   ;	Спкпомп.	100.00	8.	12.00	<b>4</b> .00	10.00	8.33	30.00	8	38.00	2.00	12.00	8.9	906
UBES,	PER CENT. OF TOTAL.	Females.	100.00	12.27	10.78	9.73	8.78	8.33	80	7.83	7.69	7.23	2.8	6.77	6.90
LI. CA	CENT.	Males.	100.00	12.04	10.97	9.32	9.16	3.	8.00	8.3	7.72	7.97	7.98	6.85	80.5
вож л	PR	.iatoT	100.00	19, 12	10.8x	9.40	8.98	8.8	8.34	8.08	7.70	2.60	7.59	<b>3</b> 9	6.55
ED F		Cnknown.	8	2	9	64	<b>1</b> 0	*	2	-	8	-	9	~	-
REPORTED FROM ALL CAUSES, 1877.	MBKR.	Females.	6,013	788	879	583	527	88	8	471	457	435	475	101	415
	NUMB	Males.	6,800	¥19	746	634	653	267	38	299	5.5	513	482	96.9	4.27
DEATHS		.latoT	12,863	1,559	1,400	1,22,1	1,155	1,072	1,060	1,010	960	978	976	875	813
MONTUS IN ORDER BY	NUMBER OF REPORTED DEATHR FROM	ALL CAUSES, GREATEST FIRST.	YEAR, 1877b	. ( August		e de October.	E ( Dec	Average	( Nov	July	March	April	May	June	Feb.

\* Nec foot-notes to Exhibit K, page 2M. b Excluding Deaths in unknown month. c Exceptions to the proposition that the Range of Temperature was greater than the average when more than the average on unber of deaths occurred, and vice versa. Exceptions to the proposition that the Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa. Exceptions to his proposition that the Range of the proposition that the Carone was least than the average in months when more than the average number of deaths occurred, and vice versa. F Exceptions to the proposition that the Atmospheric Pressure, as malicated by the Barometer, was greater than the average in months when more than the average in the average in the average in the aver

Croup.—This disease was reported to have caused 164 deaths in Michigan in 1877,-1.27 per cent. of the deaths from all causes. The largest per cent. is shown for February and October; and 77.44 per cent. were persons under 5 years of age. Exhibit K furnishes data for the study of deaths from croup and the coincident meteorological conditions. The amount of vapor inbaled seems to sustain a close relation to the deaths from croup.

EXHIBIT K .- Croup. - Deaths Returned as having Occurred in Michigan from Croup, by Months, during the Year 1877, and some coincident Meteorological Conditions.

	Mayerra	DEATHS FROM CROUP, 1877.  Temperature, Mean of 3 Observations M, 2 P. M, P. M.			Daily	HUMIDITI OF ATMOS-				Ozone,— Relative. Maximum— 10.			Barometer.	
MONTHS IN ORDER BY NUMBER OF DEATHS FROM CROUP, GREATEST FIRST.				Average Range.			Cent.	In Cu-	Vapor in 24	Vapor in 24				phere. ]
		Number.	Per Cent. of Total.	Daily.	From Day to Day,-2 F. M. to 2 F. M.	Average.	Relative Humidity, or Per of Saturation.	Weight, in Grains, of Vapor in Cu- ble Foot of Air.s	Weight, in Troy Ounces, of Inhaled by one person I hours.b	Weight, in Troy Ounces, of Vapor exhaled from Air passages in 24 hours, in excess of vapor inhaled.	Day,-7 A. M. to 2 P. M.	Night,—9 P. K. to 7 A. K.	Bain-fall, in Inches.	Average Pressure of Atmosphere. Barometer Reduced to 31º Fabrenbelt.
T ear	·, 1877、	d 164	100.00		17.53	47,42	80	8.45	2,16	9.52	3.66	8.33	87.42	29.066
More than the Av. No. of Deaths.	February	25	15.24	14.79	17.71	32.31	85	1,85	1.16	10.52	4.54	4.14	.00	29,120
	October	25	15.24	18.71	17.82	50,83	83	8.59	. 2.24	9.44	3,20	8.19	5,69	29,077
	November	24	14.63	11.48	13, 18	35.24	87	2,22	1.39	10.29	3.60	8.73	8.67	29,000
	December	20	12,20	8.77	10.73	36.57	89	2.39	1.49	10,19	3.17	8,87	1.03	29, 186
	January	16	9.76	12.58	16.06	18.07	91	1.19	.74	10.94	4.87	5.08	1.33	:9.05
Average		14	8.33	15.12	17.53	47.42	80	3.45	2.16	9,52	3,66	8.83	8.12	29.060
Less than the Average No. of Deaths.	September	13	7,03	18.97	21.10	61.28	80	4.82	3,01	8.67	2,93	. 1.53	1.88	29,12
	April	· 10	6.10	16.13	19,40	46.16	70	2.47	e 1.54	10,14	3.70	4.27	4.14	28,97
	May	9	5.48	16.52	18.13	58,25	66	3,79	2.37	9,31	3.29	2,94	2.23	29.05
	March	8	4.88	15,29	17.29	24.51	91	1,53	.96	10,72	5.29	6.06	5,60	28,98
	August	7	4.27	17.45	19.48	68.46	78	5.74	3.59	5,09	3,42	1.03	6.57	29.04
	July	4	2,14	18,39	20.42	71.43	70	5.76	3,60	8.08	2,71	1.77	2.25	29.06
	June	3	1.83	17.37	19.00	65.93	75	5.32	3.33	8,35	3.17	2,90	8.53	29,02

<sup>\*</sup> Approximate,—Calculated from Temperature and Force of Vapor combined. (Temperature of Wet Bulb Thermometer not stated.)

b Calculated for 18 respirations per minute, of 20 cubic inches of air each.

c Assuming the air exhaled to be saturated with vapor at the temperature of 98° F., each cubic foot containing 18.69 grains, 18 respirations per minute, of 20 cubic inches of air each, making 11.68

Troy ounces of vapor exhaled daily. No correction made for expansion of air after being inhaled.

4 Includes 19 Membranous croup.

Exceptions to the proposition that more than the average number of deaths from croup occurred in months in which there was less than the average quantity of vapor inhaled, and vice versu.

Croup and Diphtheria.—Exhibit L combines the number of deaths from croup and diphtheria, and permits of the study of their relation to the coincident meteorological conditions.

EXHIBIT L.—CROUP AND DIPHTHERIA.—Deaths Returned as having occurred in Michigan from Croup and Diphtheria, by Months, during the year 1877, and some coincident Meteorological Conditions.

MONTHS IN ORDER BY NUMBER OF DEATHS FROM CROUP AND DIPATHERIA, GREATEST FIRST.		DEATHS FROM CHOUP AND DIPHTHERIA, 1877.		Mean	of Thr	-Fahr.; ee Daily , - 7 A. d 9 P. M.		PHER	FOF A E, ETO Y AVE	OZONE,- RELATIVE. MAXIMUM = 10		Atmosphere.	
			Per Cent. of Total.	RAN		Average.	Relative Humidity, or Per Cent. of Saturation.	Weight, in Grains, of Vapor in Cubic Foot of Air, a	Weight, in Troy Ounces, of Vapor Inhaled by one Person in 24 hours, a	Weight, in Troy Ounces, of Vapor Exhaled from Air passages in 24 hours in excess of vapor inhaled.a	Day, -7 л. м. to 2 р. м.	Night, -9 P. M. to 7 P. M.	Average Pressure of Atm Barometer Reduced to 32º
		Number.		Dally.	From Day to Day,-								
Year, 1877		ь 756	100,00	15.12	17.53	47.42	80	3.45	2.16	9.52	3.66	3,33	29,066
o.	Oct	130	17.20	13.71	17.82	c 50,83	83	3.59	d 2,24	9.44	3,20	3.19	29,077
Average No. of Deaths.	Nov	108	14.29	11.48	13,18	35,24	87	2,22	1.39	10.29	3.60	3.73	29,090
	Sept	94	12.43	18.97	21,10	e 61.28	80	4.82	4 3.01	8.67	2.93	1.53	29,121
	Dec	93	12.30	8,77	10.73	36.57	89	2,39	1,49	10,19	3,17	3.37	29,180
Average		63	8.33	15.12	17.53	47.42	80	3.45	2.16	9.52	3,66	3.33	29,066
,	Feb	51	6.75	14.79	17.71	c 32.31	85	1,85	d 1.16	10.52	4.54	4.14	29,124
Less than the Average No. of Deaths.	Jan	47	6.22	12.58	16,06	c 18.07	91	1.19	a .74	10,94	4.87	5,03	29,057
	Aug	47	6.22	17.45	19,48	68,46	78	5.74	3.59	8.09	3.42	1.03	29.046
	March	46	6.08	15,29	17.29	c 24.51	91	1.53	4 ,96	10.72	5.29	6.06	28,981
	Мау	41	5.42	16.52	18, 13	58,25	66	3.79	2.37	9.31	3.29	2.94	29,056
	July	37	4.89	18,39	20,42	71.43	70	5.76	3,60	8.08	2.71	1.77	29,062
	April	35	4.63	16,13	19.40	• 46.16	70	2.47	4 1.54	10.14	3.70	4.27	28.974
	Jane	27	8.57	17.37	19,00	65,93	75	5.32	3.33	8,35	3,17	2.90	29,020

Diphtheria.—Five hundred and ninety-three (593) deaths from diphtheria were returned for this State during the year 1877,—4.59 per cent. of the deaths from all causes. This is the largest number ever returned for any year in this State. (See Exhibit T and remarks thereon.) This disease was most fatal during the latter part of the year, 57.94 per cent. of the total number of deaths from diphtheria in 1877 having occurred during the months of September, October, November, and December.

See foot-note to Exhibit K, page 256.
 Excluding 1 in unknown month.
 Exceptions to the proposition that more than an average number of deaths from Croup and Diphtheria occurred in months in which the mean temperature was less than the average, and vice

<sup>\*</sup>Exceptions to the proposition that more than an average number of deaths from Croup and Diphtheria occurred in months in which there was less than the average quantity of vapor inhaled, and vice versa.

Exhibit M contains data concerning the meteorological conditions coincident with diphtheria.

EXHIBIT M.—DIPHTHERIA.—Deaths from Diphtheria Returned as having occurred in Michigan during the Year 1877, and some coincident Meteorological conditions.

	Montus	PR Dipht	THS OM HEBIA, 77.	MEAN OBSER	ATURE,— OF THREE VATIONS, AND 9 P.	DAILY 7 A. M.		THOSP	CIDITY HERE, I Y AVE	ETC.,-	OZON RELA MAXI	TIVE.	renbeit.
	ORDER BY UMBER OF			AVEE			or Per lon.	Vapor	es, of	Ounces, of from Air hours, in inhaled.*		×i	Atmosph 82° Fab
Di	ATHS FROM PHTHERIA, REATEST FIRST.	Number.	Per Cent. of Total.	Dally.	From Day to Day,— 2 P. M. to 2 P. M.	Average.	Relative Humidity, or Cent. of Saturation.	Weight, in Grains, of Vapor in Cubic Foot of Air.	Weight, in Troy Ounces, of Vapor Inhaled by one per- son in 24 hours, a	Weight, in Troy Ounces, Vapor Exhaled from A passages in 24 hours, excess of vapor inhaled.	Day,—7 A. M. to 2 P. M.	Night, -9 P. M. to 7 A.	Average Pressure of Atmosphere. Barometer Reduced to 32° Fabrenheit.
Year	r, 1877	ь 592	100.00	15, 12	17.53	47.42	80	3,45	2.16	9.52	3.66	8.33	29.066
÷ ::	October	105	17.74	13,71	17.82	50.83	83	3.59	d 2.24	9,44	3,20	8.19	29.077
Set S	November	84	14, 19	11.48	13.18	35.24	87	2,92	1.39	10,29	3.60	3.73	29.090
More than Av. No. of Deaths.	September.	81	13.68	18.97	21.10	61.28	80	4.82	4 3.01	8.67	2.93	1.53	29.121
Mo.	December .	73	12.33	8.77	10.73	36.57	89	2.39	1.49	10,19	3.17	3.37	29,180
Ave	rage	49	8,33	15.12	17.58	47.42	80	3.45	2.16	9.52	3.66	3.33	29.066
5	August	40	6.76	17.45	19.48	68,46	78	5,74	3.59	8,09	3.42	1.03	29.046
<u> </u>	March	38	6.42	15.29	17.29	c 24.51	91	1,53	4 .96	10.72	5.29	6.06	28.961
8	July	23	5.57	18,39	20.42	71.43	70	5.76	3,60	8.08	2,71	1.77	29.062
ar a	Мау	32	5.41	16.52	18, 13	58.25	66	3.79	2,37	9.31	3.29	2.94	29.036
the Average Number of Deaths.	January	81	5.24	12.58	16.06	€ 18.07	91	1, 19	d .71	10,94	4.87	5.03	29.057
Lees than the of D	February	26	4.39	14,79	17.71	c 32.31	83	1.85	d 1.16	10.52	4.54	4.14	29, 124
s tha	April	25	4.22	16.13	19.40	<b>4</b> 6.16	70	2.47	d 1.54	10.14	3,70	4.27	28.974
Les	June	24	4.05	17.37	19.00	65,93	75	5.32	8.33	8,35	3.17	2.90	29,020

<sup>\*</sup> See foot-note to Exhibit K, page 256.

b Excluding 1 in unknown month.
c Exceptions to the proposition that more than an average number of deaths from Diphtheria occurred in months in which the mean temperature was less than the average, and vice versa.
d Exceptions to the proposition that more than an average number of deaths from Diphtheria occurred in months in which there was less than the average quantity of vapor inhaled, and vice versa.

Cerebro-spinal Meningilis.—The number of deaths returned as having occurred from this disease in this State in 1877 was 9,—the smallest number returned for any year since 1871.

EXHIBIT V.—Cerebro-spinal Meningitis, Etc.—The Total Number of Deaths from Cerebro-spinal Meningitis, Spotted Fever, Spinal Meningitis, Meningitis, and Spinal Fever, in Michigan during the Year 1877, by Months, and by Sex, according to the Returns.

CAUSES	Sex.	1877.					М	октн	s, 187	7.				
DEATH.	SEX.	YEAR,	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
	Total	136	13	. 5	11	13	9	15	5	19	13	13	9	11
Total	Males	65	10	2	5	4	4	7	8	9	4	2	7	8
	Fema's	71	8	3	6	9	5	8	2	10	9	11	2	1
Cerebro-	Total	9	1			2	1			1	2	2		
spinal Meningitis	Males	1	ı											
Woningien	Fema's	8				2	1	<b></b>		1	2	2		
Spotted	Total	4	j			1				1		1		1
Fever	Males_	2					ļ			1				1
	Fema's	2	<b>-</b> -	j		1		i				1		
	Total	39	2	3	6	3	2	6	1	4	2	1	5	4
Spinal Meningitis	Males	20	1	1	3	1	1	2	ι	2	1		3	4
_	Fema's	19	1	2	3	2	1	4		2	1	1	2	ļ
	Total	11	2		1	1	•••••	1	2	1	1	1		1
Meningitis -	Males	7	2		1	1		1	1					1
	Fema's	4							1	1	1	1	<b></b>	
Spinal Fe-	Total	73	8	2	4	6	6	8	2	12	8	8	4	5
ver	Males	35	6	1	1	2	3	4	1	6	3	2	4	2
	Fema's	38	2	1	3	4	3	4	1	6	5	6		l a

EXHIBIT 15.—CEREBRO-SPINAL MENINGITIS, ETC.—Deaths Returned as having occurred in Michigan from Cerebro-spinal Meningitis, Spotted Fever, Spinal Meningitis, Meningitis, and Spinal Fever, by Months, during the Year 1877, and some coincident Meteorological Conditions.

DEATHS, FROM CER.	SPINAL SPINAL STNGITIB, GREAT	Deaths Cere Spinal ingitis	Men-	Mean o	of Three	-7 A. M.,	Atmos etc.,-M	lity of aphere, lonthly rages.	Rela	ne,— ative mum 10.	in Inches.	phere	e. Ind	Atmos- ches of y. 52° F.)
DER J	VER, MED EVER,		·i	Average	Range.	Ą	dity, or Satura-	Poot	P. M.	14.36.	Snow,	Rang Baron		
MONTHS IN OR BER OF DEAT	EBRISETAL MERINGILLS, SPOTTED FEVER, SPINAL MENINGITIS, MENINGITE, AND SPINAL FEVER, GREAT EST FIRST.	Number.	Per Cent. of Total.	Dally.	From Day to Day,-2r. M. to 2r. M.	Average.	Relative Humidity, Per Cent. of Satuition.	Weight, in Grains, Vapor in Cubic Fo of Air.a	Day,-7 A. M. to 2	Night,-9 P. M. to 7	Rain and Melted Snow, in Inches.	Monthly, and Year.	Average Dally.	Average Pressure.
Year	r, 1877	136	100.00	15.12	17.53	47.42	80	3,45	3,66	3,33	37.42	1.539	.109	29,066
-	Aug	19	13.97	17.45	19.48	d C8,46	78	5.74	3,42	1.03	6,57	.401	.056	29.046
bs.	June	15	11.03	17 87	19.00	d 65.93	75	5.32	3.17	2.90	8.53	.513	.084	29.020
than the A of Deaths.	Jan	13	9.56	ь 12.58	c 16.06	18,07	e 91	f 1,19	g 4.87	g 5.03	1.83	.896	. 176	29.057
of I	April	13	9.56	16,18	19.40	46,16	70	1 2.47	g 3.70	£ 4.27	4.14	.789	.110	28,974
More t No.	Sept	13	9.56	18.97	21, 10	d 61,28	e 80	4,82	2.93	1.53	1.88	.417	.073	h 29.131
ž	Oct	13	9.56	b 13.71	17.82	4 50,83	e 83	3.59	3.20	3,19	5.69	.695	.105	≥ 29.077
Ave	rage	11.3	8.33	15.12	17.53	47,42	80	3 45	3.66	3.33	3.12	.765	.109	29,066
χο.	March.	11	8,09	b 15,29	17.29	4 24,51	91	1.58	5.23	6,06	5.60	1.119	.151	h 28,96]
۲. ۲.	Dec	11	8.09	8.77	10.73	4 86.57	89	2,39	g 3.17	3.37	1.03	. 832	.112	29,180
Less than the Av. of Deaths.	May	Đ	6,61	ь 16.52	c 18. 13	58.25	• 66	f 3.79	g 3.29	g 2.94	2,23	.678	.083	b 29.656
T De	Nov	9	6.61	11.48	13.18	4 35.24	87	2.22	£ 3,60	3.73	<b>3</b> 67	1,148	. 152	29.099
멸이	Fob	5	<b>3,6</b> S	14.79	c 17.71	4 32.81	83	1.85	4.54	4.14	.00	1.007	.122	29.124
2	July	5	3,69	t 18.33	c 20,42	71.43	e 70	15.76	g 2.71	€ 1.77	2.25	.655	.088	h 29,061

Congestive Chills and Intermittent Fever.—Seventy-five (75) deaths from congestive chills were returned as having occurred in Michigan in 1877. The largest number was returned for July and September, the smallest for January, March, and November.

The number of deaths from intermittent fever in 1877 was 53, according to the returns. More than one-third of these were returned for the month of September. Great range of temperature from day to day seems to sustain a

a See foot-note to Exhibit K, page 256.

b Exceptions to the proposition that the Daily Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

c Exceptions to the proposition that the Range of Temperature "from day to day" was greater than the average in months when more than the average number of deaths occurred, and vice versa.

d Exceptions to the proposition that the Temperature was lower than the average in months when more than the average number of deaths occurred, and vice versa.

e Exceptions to the proposition that the Relative Humidity was less than the average in months when more than the average number of deaths occurred, and vice versa.

f Exceptions to the proposition that the Absolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa.

s Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa.

b Exceptions to the proposition that the Atmospheric Pressure indicated by the barometer, was less than the average in months when more

closer relation to deaths from this disease than any other atmospheric condition shown in Exhibit W.

EXHIBIT U.—Congestive Chills.—Deaths Returned as having occurred in Michigan from Congestive Chills by Months, during the Year 1877, and some coincident Meteorological conditions.

	NTH5	fron ge: Ch	aths n Con- stive ills, 577.	Mean	of 3 de	A. M.,	Hum	Etc.,	Atmos Monthl rages.	phere,	Ozone, ative. imum	Max-		phere.	Inche cury.	s of Mer
BY	nder Num- Rop			Ave Rai	rage ige.		ent. of	In Cu-	Vapor in 24	Vapor s in 24 naled.a			nches.	Rang		
CH CH CH	ATHS ROM RGES- IVE ILLS, ATEST RST.	Number.	Per Cent. of Total.	Daily.	From Day to Day, 2 P. M. to 2 P. M.	Average.	Relative Humidity, or Per Cent. of Saluration.	Weight, in Grains, of Vapor in bic Foot of Air, a	Weight, in Troy Ounces, of Inhaled by one person hours.a	Weight, in Troy Ounces, of Vapor exhaled from Air passages in 24 hours, in excess of vapor inhaled, a	Day,-7 A. M. to 2 P. M.	Night,-9 P. M. to 7 A. M.	Rain and Meited Snow, in Inches.	Monthly, and Year.	Average, Dally.	Average Pressure,
Year	, 1877.	75	100.00	15, 12	17.53	47.42	80	3.45	2.16	9,52	3,66	3,33	37.42	1,539	.109	29,066
٠ ۲٠	July	11	14.67	18.39	20,42	71,43	70	5,76	3,60	8.03	2.71	1.77	2.25	h .655	1,088	g 29.069
<b>4.</b>	Bept	11	14.67	18.97	21,10	61.28	80	4,82	3.01	8.67	2,93	1.53	1,38	h .417	1.073	29.121
More than the No. of Deaths.	Dec	9	12.00	b 8.77	c 10.73	4 36.57	89	e 2.39	1.49	10,19	3.17	f 3.37	1.03	.832	.112	29,180
of the	Aug	8	10,67	17.45	19,48	68,46	78	5,74	3.59	8,09	3.42	1.03	6.57	a .401	1.056	g 29.016
S S S	Apr	7	9 83	16.13	19,40	4 46.16	70	* 2.47	1.54	10.14	f 3.70	f 4.27	4.14	.789	.110	g 28,974
×	June.	7	9,33	17.87	19,00	65,93	75	5.32	3,33	8.35	3.17	2.90	3.53	ь .513	1,084	g 29,020
Aver	<b>ag</b> e	6.25	8,33	15.12	17.53	47.42	80	3,43	2,16	9.52	3.66	3,33	3.12	.765	.109	29.066
. !	[Oct	6	8.00	18.71	c 17.82	# 50.S3	83	e 3,59	2.24	9.44	13.20	f 3,19	5.69	,695	.105	E 29.077
	Feb	5	6,67	14.79	e 17.71	32.31	85	1,85	1.16	10.52	4.54	4,14	.00	b 1.007	1.122	g 29, 12
a the	May_	5	6.67	ь 16.52	e 18, 13	4 58,23	66	e 3,79	2,37	9,31	r 3.29	1291	2,23	.676	.083	29,036
Less than the A. No. of Deaths.	Jan	2	2.67	12.58	16,06	18.07	91	1,19	.74	10.94	4.87	5,03	1.33	h ,896	1 .176	29,05
% S	Mar	2	2,66	b 15.29	17,29	24.51	91	1,53	.96	10.72	5,29	6,06	5.60	± 1.119	1 .151	28,98
-	Nov	2	2.66	11.48	13.18	35.24	87	2,20	1.39	10.29	1 3.60	3,73	3.67	ь 1.143	1.152	g 29,099

33-1877.

<sup>•</sup> See foot-notes to Exhibit K, page 256.

• Exceptions to the proposition that the Daily Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

• Exceptions to the proposition that the Range of Temperature "from day to day" was greater than the average in months when more than the average number of deaths occurred, and vice versa.

• Exceptions to the proposition that the temperature was higher than the average in months when more than the average number of deaths occurred, and vice versa.

• Exceptions to the proposition that the Absolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa.

• Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa.

• Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

• Exceptions to the proposition that the Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

• Exceptions to the proposition that the Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

EXHIBIT X.—TYPHOID FEVER.—Deaths Returned as having occurred in Michigan from Typhoid Fever, by Months, during the Year 1877, and some coincident Meteorological conditions.

	KI SHT	Ty:	eaths rom phoid ever, 377.	Mes Daily	rature, in of Ti Observ I., 2 P. 1 9 P. M.	aree	Hum	idity of -Month	ly Ave	rages.	Rela	ne,— ative. mum 10.		phere	ure of . b. Incl Mercury ced to	nes of
-	rder Sumber				rage age.		int. of	in Cu-	of Vapor	unces, of Vapor r passages in 24			ches.		ge of neter.	
of I	DRATHS				į į		r Ce	Vapor in	25	of ges Inh			o In			
7	FROM				a:		r Pe		n fu	Ounces,	ж.	×	W. ft			
TY	PHOID		<del>.</del>		<b>7</b>		ty, o	s, of	Oun	Adr p		to 7 A.	Sno			6
F	EVER,		Tota		Q.		plu	Afr.	roy ne F	Troy rom A	to 2 P.	K. to	lted	Year.	4	asur.
	RATEST.	Number.	Per Cent. of Total.	Daily.	From Day to Day,-2 to 2 P. M.	Average.	Relative Humidity, or Per Cent. of Saturation.	Weight, in Grains, blc Foot of Air.	Weight, in Troy Ounces, Inhaled by one Person in	Weight, in Troy Or Exhaled from Air hours in excess of	Day, - 7 A. M.	Night,-0 P. M.	Rain and Melted Snow, in Inches,	Monthly, and	Average, Daily.	Average Pressure.
Year	r, 1877	<b>1444</b>	100.00	15. 12	17.53	47.42	80	3,45	2.16	9.52	3,66	3.33	37.42	1.539	.109	29.006
<u></u>	(Oct	83	19,14	c 13.71	17,82	50,83	83	3.59	2,24	9,44	3.20	3.19	5,69	h .695	1 .105	29.077
More than the Av. No. of Deaths.	Sept	83	18.69	18.97	2L10	61.28	80	4.82	8.01	8.67	2,93	1,53	1.38	h .451	1 ,073	29.121
åğ.	Nov	58	13.06	c 11.48	4 13, 18	• 35,24	87	1 2.22	1,39	10.29	3,60	g 3.73	3.67	1,143	.152	29,099
5 <u>0</u>	Aug	54	12.16	17.45	19 48	68.46	78	5.74	3.59	8,00	3.42	1.03	6.57	h .401	1 .056	129,046
şz	Dec	43	9.68	c 8.77	d 10.73	• 36.57	89	f 2.39	1.49	10.19	3.17	g 3.37	1.03	.832	.112	29.180
Ave	rage	87	8.33	15.12	17.53	47.42	80	3.45	2.16	9.52	3,66	3,33	3,12	.765	.109	29,966
	Mar	25	5.63	c 15, <b>2</b> 9	17.29	24.51	91	1.53	.96	10.72	5,29	6.06	5.60	h 1.119	1 .151	28,981
the.	May	24	5.41	¢ 16.52	418,13	e 58,25	66	f 3.79	2.37	9.31	g 3.29	₹ 2.94	2.23	.676	.083	29.056
sas than the Average Number of Deaths.	April.	18	4.05	c 16.13	d 19.40	46,16	70	2.47	1.54	10.14	3,70	4.27	4.14	h .789	1 .110	28.974
ge.	July	18	4.05	c 18. <b>3</b> 9	d20.42	• 71.43	70	f 5.76	3.60	8.08	g 2.71	s 1.77	2.25	.655	.088	29.062
Less than the Number of 1	Jan	14	3.15	12.58	16.06	18.07	91	1.19	.74	10.94	4.87	5.03	1.33	h ,896	1 .176	29,057
8 Z	Feb	18	2,93	14.79	417.71	32.81	85	1,85	1.16	10.52	4.54	4.14	.00	h 1.007	1,122	129.124
-	June	9	2.03	c 17.87	d 19.00	o 65.93	75	f 5.32	3.33	8.35	g 3.17	g 2.90	3,53	.513	.084	29,020

Typhoid Fever.—This disease is reported to have caused 446 deaths in this State in 1877, which is 3.45 per cent. of the deaths from all causes. The largest per cent. is shown for the month of October, and 62.78 per cent. of all the deaths from this disease in 1877 were reported for the four months of August, Septem-

a See foot-netes to Exhibit K, page 256.

b Excluding 2 in unknown month.

c Exceptions to the proposition that the Daily Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

d Exceptions to the proposition that the Range of Temperature "from day to day" was greater than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Absolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Average Daily Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

J Exceptions to the proposition that the Average Daily Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

This discounce is average to be averaged to be averaged to be averaged to be the proposition that the Atmospheric Pressure Indicated by the Barometer was greater than the average when more than the average number of deaths occurred, and vice versa.

ber, October, and November. Nearly one-quarter of all the decedents from ty-phoid fever were between the ages of 15 and 25 years. Exhibit X contains meteorological data in connection with the deaths from typhoid fever; and the relation between the deaths from this disease and the atmospheric pressure seems to be closer than any other meteorological condition noticed in the exhibit.

EXHIBIT W.—Intermittent Fever.—Deaths returned as having occurred in Michigan from Intermittent Fever, by Months, during the Year 1877, and some coincident Meteorological conditions.

	ONTHS ORDER	from mi	inter- tient ever, 877.	Mean	of 3 d	, Fahr.; ally ob- 7 A. M., 9 P. M.		ere, Etc	y of Ats .,—More erage.		Max	,—Rel- ve. mum 10,	•	pher	e. In	Atmos- hes of y. 82° F.)
BT	NUM-				rage ige.		Cent.	In Cu-	Vapor in 24	Vapor s in 24			iches.		ge of neter.	
IN MIT FE GRE	EATHS ROM TER- TENT VER, HATEST	Number.	Per Cent. of Total.	Daily.	From Day to Day, -2 P. M.	Average.	Relative Humidity, or Per of Saturation.	Weight, in Grains, of Vapor in Cu-	Weight, in Troy Ounces, of Inhaled by one person hours.	Weight, in Troy Ounces, of Vapor exhaled from Air passages in 24 hours in excess of vapor inhaled.»	Day,-7 A. M. to 2 P. M.	Night, -9 P. M, to 7 A. M.	Rain and Melted Snow, in Inches.	Monthly, and Year.	Average, Dally.	Average Pressure.
Yea	r, 1877.	53	100,00	15.12	17.53	47.42	80	3.45	2,16	9,52	3,66	3,33	37.42	1,539	.109	29.066
No. of Deaths.	Sept.	18	83,96	18,97	21.10	61.28	80	4.82	3.01	8.67	2 93	1.53	1.38	h .451	1.073	29, 12
å	Aug.	7	13.21	17.45	19.48	68.46	78	5.74	3.59	8.09	3,42	1.03	6,57	h .401	1,056	g 29.040
0.0	Feb	5	9.43	b 14.79	17.71	4 32.31	85	e 1.85	1.16	10.52	£4.54	14.14	.00	1.007	.122	29,124
	age	4.42	8.83	15.12	17.53	47.42	80	3,45	2.16	9,52	3.66	3.33	3.12	.765	.109	29.066
1	June.	4	7.53	b 17.87	c 19.00	4 65.93	75	• 5.32	3,33	8.35	1 3.17	f 2.90	3.53	.513	.081	29.020
, [	Oct	4	7.55	18.71	c 17.82	d 50.53	83	* 3.59	2,24	9.44	f 3.20	f 3. 19	5.69	.695	.105	s 29.077
	Mar	8	5.66	<b>ه 15.2</b> 9	17.29	24.51	91	1.53	.96	10.72	5.29	6.06	5.60	b 1,119	1,151	28.981
ą	Apríl.	3	5.66	b 16.13	a 19.40	46.16	70	2.47	1.54	10.14	3.70	4.27	4.14	h .789	1.110	23,974
ě.	May	3	5.66	b 16.52	c 18.13	4 58.25	66	• 3,79	2.37	9.31	1 3,29	r 2.94	2,23	.676	.083	29.056
9	Dec	8	5.66	8.77	10.73	36.57	89	2,39	1.49	10,19	13.17	3.37	1.03	h .832	1.112	g 29.180
No. of Deaths.	July	2	8.77	ь 18 <b>.3</b> 9	c 20.42	471.43	70	e 5.76	3,60	8,08	12.71	f 1.77	2 25	.655	.088	29,063
'	Jan	1	1.89	12,58	16.06	18.07	91	1.19	.74	10.94	4.87	5.03	1.33	h .896	1.176	29,067
į	Nov			11.43	13,18	35,24	87	2.22	1.39	10,29	13.60	3.73	3,67	ь 1.143	1.152	g 29.099

١

a See foot-note to Exhibit K, page 226.

Exceptions to the proposition that the Daily Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Range of Temperature "from day to day" was greater than the average in months when more than the average num ber of deaths occurred, and vice versa.

Exceptions to the proposition that the Temperature was higher than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Absolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

A Exceptions to the proposition that the Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

1 Exceptions to the proposition that the Average Daily Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

EXHIBIT 16.—DIARRHEA.—Deaths in Michigan from Diarrhea in July and August of each of the Years 1872-1877, the Average for Six Years ending with 1877, and some coincident Meteorological conditions, at the Agricultural College, near the center of the thickly-settled part of the State.

_		Diarrhes.	Mean servat	erature of 3 Da ions,—	ily Ob-	Etc	thly	Ozon Rela Maxis	tive.	Melted Snow, in Inches.	of A	Pressu Atmosp of Me ced to	
	LY AND T OF EACH	from	Ave	rage ige.		dity, or Satura-	Foot	P. M.	A.M.	Snow, 1	Rang Barom		
	ME YEARS 2-1877.	Number of Deaths	Dally.	From Day to Day,-2 r.m. to 2 r.m.	Average.	Per Cent. of Satution.	Weight, in Grains Vapor, in Cubic Fo of Air. a	Day,-7 A. M. to 2 P.	Night,-9 P. M. to 7	Rain and Melted E	Monthly.	Average, Dally.	Average Pressure.
Average	( July	61	16.67	19.36	71,89	75	6.37	2.44	2.24	2.969	.611	. 188	28,97
Average	August	105	17.20	19.60	69.27	78	6.08	2.70	1.79	2.596	.519	. 163	28,99
1872	5 July	80	16.45	d 19.55	74.91	77	7.33	.88	2.28	8.360	.404	.081	1 28,92
1018	August	145	15.32	17.61	71 22	83	7.15	.98	1 ,99	4, 180	.872	.060	J 28.96
1873	July	65	15.35	18,68	70.82	78	6,45	3.50	3 06	5. 124	.453	.083	J 28 91
2010::::::::	August	105	18.55	21.32	69.49	81	6.29	3,55	2.65	.796	.574	.084	28.92
1874	} July	61	17.68	21.85	e 72.02	71	6.00	1.80	1.50	2.560	.465	.078	28.90
	Angust	104	17.93	19.61	e 69.89	74	5.75	2,80	1.10	1.278	.503	.065	28,92
1875	July	56	c 16.26	4 18.26	69.67	€ 78	5.91	3.52	1 3.22	2.420	.584	.696	J 29.04
	August	80 	e 16.90	4 19.61 	65.43	77	5.22	3,50	1.3.70	1.470	.806	.652	J 29.02
1876	July	69	15.87	17.90	72 48	78	6.76	2.16	1 1,58	r 2, 100	.507	.070	29.00
	Angust	98	17,74	20,97	• 71.55	76	h 6.31	1 1,97	1.26	1.280	.459	.061	1 29,04
1877	July	55	18.39	20,42	71.43	70	5.76	2.71	1.77	2.250	.655	.063	J 29.06
	(August	96	17.45	d 19.48	68.46	78	5.74	3.42	1.03	f 6.570	.401	.056	J 29,04

See foot-note to Exhibit K, page 256.
 Not corrected for instrumental error previous to 1875. (See Exhibit 12 and remarks thereon, age 251.)

<sup>\*</sup> See foot-note to Exhibit K, page 200.

b Not corrected for instrumantal error previous to 1875. (See Exhibit 12 and remarks thereon, page 251.)

c Exceptions to the proposition that the Average Daily Range of Temperature was less than the average for July or August in months of July or August when more than the average number of deaths from Diarrhea occurred, and vice versa.

d Exceptions to the proposition that the Average Range of Temperature "from day to day" was less than the average for July or August in months of July or August when more than the average number of deaths from Diarrhea occurred, and vice versa.

Exceptions to the proposition that the Average Temperature was higher than the average for July or August in months of July or August when more than the average number of deaths from Diarrhea occurred, and vice versa.

Exceptions to the proposition that the amount of rain and melted snow was greater than the average for July or August in months of July or August when more than the average number of deaths from Diarrhea occurred, and vice versa.

Exceptions to the proposition that the Average Relative Humidity was greater than the average for July or August in months of July or August when more than the average number of deaths from Diarrhea occurred, and vice versa.

Exceptions to the proposition that the Absolute Humidity was greater than the average for July or August in months of July or August when more than the average number of deaths from Diarrhea occurred, and vice versa.

Exceptions to the proposition that the Day or Night Ozone was less than the average for July or August in months of July or August when more than the average number of deaths from Diarrhea occurred, and vice versa.

Exceptions to the proposition that the Day or Night Ozone was less than the average for July or August in months of July or August when more than the average number of deaths from Diarrhea occurred, and vice versa.

Diarrhea.—During the year 1877, according to the returns, 290 deaths occurred from diarrhea in this State. This is the smallest number returned for any of the years 1869-1877, except 1871 and 1875. In 1877, 2.24 per cent. of all the deaths returned were caused by this disease. The largest per cent. occurred in August, nearly one-third of the total number having been returned for that mouth; and 83.45 per cent. of the total deaths from diarrhea were of persons under 5 years of age.

Exhibit 16 facilitates the study of this subject by presenting some of the meteorological conditions coincident with the deaths from diarrhea in July and August of each of the years 1872-1877.

EXHIBIT 21.—DIARRHBA.—Deaths Returned as having occurred in Michigan from Diarrhea, by Months, during the Year 1877, and some coincident Meteorological conditions at the Agricultural College, near Lansing, Michigan, and near the center of the thickly-settled part of the State.

	Монтна	fi Dia	aths rom ' rrhea,		peratu	Contract of the		Humid Atmos Av. of ( 7 A. M M., and M., dail	phere. Obs. at ., 2 P.	Ozone, tive.— of 10 D of Co	Scale egrees lora-	of . Inch	Pressur Atmosp es of Mo iced to	here.
	ORDER BY			Daily.	and for ar.	ations P. M.	d Snow.	c Cent.	ins of Air.a	10 10	ж. to	Rang	ge of neter.	
Ľ	ATHS FROM DIARRHEA, GREATEST FIRST.	Number.	Per Cent, of Total.	M. 2 P. M. and 9 P. M., Dally.	During Day and Follow'g Night, by Regist'g Ther- mometer, Obs. at 7 A.M.	Average of Dally Observations at 7 A. M., 2 P. M., and P. H.	Inches of Rain and Melted Snow.	Relative Humidity, or Per of Saturation.	Absolute Humidity,-Grains of Vapor in a Cubic Foot of Air.a	Day Observation,-7 A. M. P. M.	Night Observation,-9 P. 7 A. M.	Monthly, and for Year,	Average Daily Range of Observations at 7 A.M., 2 P. M., and 9 P. M.	Average Pressure.
(ear	1877	<b>5289</b>	100,00	15.06	21.74	47.42	37.49	80	3,43	3.66	3,33	1.539	.109	29.06
i d	August	96	33.22	17.45	27.00	68.46	6,57	78	5.74	3,42	1.03	1,401	J .056	k 29.04
No. of Deaths.	July	55	19.03	18,07	29.08	71.43	2.25	70	5.76	2.71	1.77	1 .655	1.088	k 29.06
ŏ	September	52	17,99	18,97	22,90	61.28	1.38	80	4.82	2.93	1.53	1.451	1.073	29.12
ž	October	25	8,65	c 13,81	c 16.27	50.83	5.69	• 53	3.59	3.20	3.19	1,695	1.105	29.07
146	rage	24	8,30	15.06	21,74	47.42	3.12	80	3.45	3.66	3.33	.763	.109	29.06
. !	June	23	7.96	c 17.37	c 25, 26	4 65.93	3.53	• 75	f 5.32	g 3.17	ь 2.90	.513	.084	29.02
5	November	9	3.11	11.47	12.69	35.24	8.67	87	2.22	g 3.60	3.73	1,143	J.152	k 20.09
	May	7	2.42	c 16.52	c 27.78	4 58, 25	2,23	• 66	f 3.79	g 3.29	h 2.94	.676	.083	29.03
1	January	6	2.08	12.26	17,64	18,07	1.33	91	1.19	4.87	5.03	1,896	J.176	29.05
A	April	6	2.08	c 16,13	c 25, 43	46,16	4.14	• 70	2.47	3.70	4.27	.789	1.110	28.97
of Destha	December	4	1,38	8.77	12.45	36.57	1.03	89	2.39	g 3.17	3.37	.832	1.112	k 29, 18
	February	3	1,04	14.86	20.47	32.31	0.00	85	1.85	4.54	4.14	1,007	J.122	k 27.12
•	March	8	1.04	€ 15.19	c 24.06	24.51	5.60	91	1.53	5 29	6.06	1.119	J.151	28,981

See foot-notes to Exhibit K, page 256.
 Excludes I in unknown month.
 Exceptions to the proposition that more than an average number of deaths from Diarrhea courred in months when the Average Daily Range of Temperature was greater than the average, ad vice versa.
 Exceptions to the proposition that more than an average number of deaths from Diarrhea [Foot motes to Exhibit 21 continued at bottom of page 268.]

Dysentery.—There were 221 deaths from dysentery returned for the year 1877. A very large proportion occurred during the summer months, as was the case with diarrhea; and 34.84 per cent. were returned for the month of August. Table XXI shows the number of deaths from this disease by geographical divisions of the State. The largest per cent. shown in this table is in the northern-central division of the State, the smallest in the northwestern division.

TABLE XXI.—Exhibiting for the State and for Eleven Geographical Divisions of the State, during the Year 1877, the Number of Deaths Returned as having occurred from Diarrhea and from Dysentery, and the Per Cent. of Deaths from each Disease to Deaths from All Causes.

		D CHBONIC.		ERY, 1877, ID CREONIC.
STATE AND GEOGRAPHICAL DIVISIONS.	Number of Deaths, 1877.	Per Cent. of Deaths from All Causés, by Geograph- ical Divis- ions.	Number of Deaths, 1877.	Per Cent. to Deaths from All Causes, by Geographical Divisions.
STATE	290	2.24	221	1.71
Upper-peninsular	20	2.92	я	1.17
Northwestern	7	2.40	2	.68
Northern	2	1.19	2	1.19
Northeastern	6	6.45	1	1.08
Western	36	2.78	26	2,01
Northern-central	6	2.73	6	2.73
Bay and Eastern	51	2.81	25	1.38
Central	17	.89	58	2.79
Southwestern			9	1.01
Southern-central	10	.40	30	1.18
Southeastern	135	4.46	59	1.95

a For counties included in each Division, see page 158.

occurred in months when the Average Daily Temperature was higher than the average, and vice versa.

• Exceptions to the proposition that more than an average number of deaths from District occurred in months when the Relative Humidity of the Atmosphere was less than the average, and

vice versa.

f Exceptions to the proposition that more than an average number of deaths from Diarrhea occurred in months when the Absolute Humidity of the Atmosphere was greater than the average,

and vice versu.

Exceptions to the proposition that more than an average number of deaths from Diarrhea occurred in months when the Amount of Ozone in the Atmosphere, as indicated by the Day observations, was less than the average, and vice versu.

Exceptions to the proposition that more than an average number of deaths from Diarrhea occurred in months when the Amount of Ozone in the Atmosphere, as indicated by the Night observations, was less than the average, and vice versu.

Exceptions to the proposition that more than an average number of deaths from Diarrhea occurred in months when the Monthly Range of Barometer was greater than the average, and vice versu.

J Exceptions to the proposition that more than an average number of deaths from Diarrhea occurred in months when the Average Daily Range of Barometer was greater than the average, and vice versa. vice versa.

k Exceptions to the proposition that more than an average number of deaths from Diarrhea occurred in months when the Average Daily Pressure of the Atmosphere was greater than the average, and vice versa.

EXHIBIT 19.—RHEUMATISM.—Deaths in Michigan from Rheumatism during the Year 1877, and some Meteorological conditions existing at the same time.

Mo	ntes in	De	aths.	Mea Daily (	rature, n of Tl bserva N., 2 P. id 9 P. 1	ree	A	Hum tmosph fonthly	Avera	c.,-	Rel: Max	nc,— ative. mum 10.	Rang Baron		Verage.
	DER BY			Ave Ran	rage ige.	Ĭď.	Cent.	Vapor in	of Vapor	Vapor s in 24 haled.a				-	'abr.,—4
D	EATHS.				×		Per	00 1	s, of in 24	s, of					F
PRO	K RHEU-				Day,—2 P.		y, or	13 et	unce	pas vap	×	A. M.	. 1		å 50
	ATISM,		otal.		Day,		Humidity, ation.	Grains, of Air.s	oy o	oy O	to 9 P.	to 7	rear	2	duce
-	BATEST		T TO		2	ture.		in G	n Tr	fron fron	<b>}.</b> ×. (	P. M	pur	Daff	r Re
•	IRST.	Number.	Per Cent. of Total.	Daily.	From Day to 2 P. M.	Temperature.	Relative Humi	Weight, in Cubic Foot	Weight, in Troy Ounces, Inhaled by one Person in	Weight, in Troy Ounces, of Vapor Exhaled from Air passages in 24 hours in excess of vapor inhaled.a	Day,—7 &	Night,-9 F. M. to 7 A.	Monthly, and Year,	Average, Dally.	Barometer Reduced to 32º Fahr.,—Average.
Year	r, 1877	72	100,00	15,12	17.53	47.42	80	8.45	2.16	9.52	8.66	3,33	1.539	.109	29,066
. •	March	9	12.50	15.20	17.29	24.51	91	ь 1.53	.96	10.72	• 5.29	c 6.06	1.119	.151	4 28,951
More than the Av.	Nov	9	12.50	11.48	13, 18	35.24	87	b 2.22	1.39	10,29	8.60	e 3.73	1.143	.152	29.099
go.	Aug	8	11.11	17.45	19.48	68,46	78	5,74	3.59	8,09	8.49	1.03	.401	.056	a 29.046
the	Sept	8	11.11	18.97	21.10	61.28	80	4 82	3.01	8.67	2.93	1.53	.451	.073	29,121
un de	Dec	8	11.11	1 1	10,78	36.57	89	ь 2.39	1.49	10,19	3,17	3.37	.832	.112	29, 180
~ <b>z</b>	( May	7	9.72	16.52	18, 13	58, 25	66	3.79	2.37	9.31	3.29	2 94	.676	.083	4 29,056
Ave	rage	6	8.33	15,12	17.53	47.42	80	3,45	2.16	9.52	8.66	3.33	.765	.109	29.066
	Jan	8	8,83	12.58	16.06	18.07	91	1.19	.74	10.94	4.87	5.03	.896	.176	29.057
Less than the Av. Number of Deaths.	April	5	6.94	16.18	19.40	46.16	70	2 47	1 54	10.14	3.70	4.27	.789	.110	28 974
E A	July	5	6.94	18.39	20.42	71.43	70	b 5.76	3.60	8.08	• 2.71	e 1.77	.655	.088	29.062
er the	Feb	3	4.17	14.79	17.71	32.31	85	1.85	1.16	10.52	4.54	4.14	1.007	.122	d <b>29</b> .124
98	June	2	2.78	17.87	19,00	65,93	75	b 5.32	3.33	8,35	c 8.17	c 2.90	.513	.084	<b>29</b> .020
HŽ	Oct	2	2.78	18.71	17,82	50,83	83	ь 3.59	2,24	9,44	• 8.20	e 3.19	.695	.105	4 29.077

<sup>•</sup> See foot-notes to Exhibit K, page 256.
• Exceptions to the proposition that the air contains more than the average amount of vapor of water in months when more than the average number of deaths from lineumatism occurred, and wice versa.
• Exceptions to the proposition that there was less than the average Ozono in the air in months when more than the average number of death from Rheumatism occurred, and vice versa.
• Exceptions to the proposition that the Atmospheric Pressure was greater than the average is months when more than the average number of deaths from Rheumatism occurred, and vice versa

Scarlet Fever.—There were 404 deaths from scarlet fever returned for 1877, which is 3.13 per cent. of the deaths from all causes. This is the smallest number of deaths returned from this disease for any of the years 1869-1877, except 1869 and 1876. December shows the largest proportion of any month of 1877, and 88.36 per cent. of the total number of decedents from scarlet fever in 1877 were under ten years of age.

EXHIBIT Y .- Scarlet Fever .- Deaths from Scarlet Fever returned as having occurred in Michigan during the year 1877, and some coincident Meteorological conditions.

М	ONTHS IN ORDER	fr Sca Fe	aths rom arlet ever, 877,	Mean	erature of thre vations M., and	e daily	Hum Etc.	idity o	of Atm	osphere, erages.	Ozon Relat Maxir = 1	ive.	phere.
1	BY NUMBER OF DEATHS FROM			Aver	rage ge.		or Per	Vapor ir.s	ne per-	Junces, of from Air hours, in inhaled, a	K.	A. K.	f Atmod
S	CARLET FEVER, GREATEST FIRST.	Number.	Per Cent. of Total,	Dally.	From Day to Day, 2 P. M. to 2 P. M.	Average.	Relative Humidity, or Cent. of Saturation.	Weight, in Grains, of Vapor in Cubic Foot of Air.	Weight, in Troy Ounces, of Vapor Inhaled by one per- son in 24 hours.	Weight, in Troy Ounces, of Vapor Exhaled from Air passages in 24 hours, in excess of vapor inhaled, a	Day,-7 A. M. to 2 P.	Night, -9 P. M. to 7	Average Pressure of Atmosphere. (Barometer Reduced to 32° Fahr.)
T BA	R, 1877	404	100.00	15.12	17.53	47.42	80	3.45	2.16	9.52	3,66	3.33	29.066
i # !	December	46	11.89	8.77	10.73	36,57	89	2.39	1.49	10.19	3.17	3.87	29.180
of Deaths.	Мау	40	9,90	16,52	18,13	b 58.25	66	€ 3.79	2.37	9.31	3,29	2.94	29.056
of I	June	35	8.66	17.37	19.00	b 65.93	75	e 5.32	3.33	8.35	3,17	2.90	29,020
	October	85	8.66	13.71	17,82	b 50.83	83	c 3.59	2.24	9.44	3,20	8, 19	29.077
<b>∆ve</b> :	rage	34	8.33	15.12	17.53	47.42	80	3,45	2.16	9,52	3.66	3,83	29,000
1	February	33	8.17	14.79	17.71	b 32.31	85	c 1.85	1.16	10.52	4.54	4.14	99, 124
	April	83	8,17	16.13	19.40	b 46, 16	70	0 2.47	1.54	10.14	3.70	4.27	28,974
Ä	January	32	7.92	12,58	16.06	b 18.07	91	c 1,19	.74	10,94	4,87	5.03	29.057
of Deaths.	August	82	7.92	17,45	19.48	68.46	78	5,74	3,59	8.09	3.42	1,03	29,046
non the Average No. of Deaths.	March	31	7.67	15.29	17.29	b 24.51	91	o 1.53	,96	10.72	5.29	6.06	28,961
	November	30	7.43	11.48	13,18	b 35.24	87	c 2.22	1,39	10.29	3.60	8.78	29 000
	September	29	7.18	18,97	21.10	61.28	80	4,82	3,01	9,67	2,93	1.53	29.121
	July	28	6.93	18.39	20.42	71.43	70	5.76	3,60	8.08	2.71	1.77	29,061

See foot-notes to Exhibit K, page 256.
 Exceptions to the proposition that the Temperature was lower than the average in months when more than the average number of deaths from Scarlet Fever occurred, and vice versa.
 Exceptions to the proposition that the Absolute Humidity of the Atmosphere was less than the average in months when more than the average number of deaths from Scarlet Fever occurred, and vice versa.

Consumption.—The number of deaths reported from consumption in Michigan in 1877 was 1,664,—12.88 per cent. of the deaths from all causes. is the largest number of deaths ever returned as having occurred in this State from this or any other cause. More females than males die from consumption in Michigan annually, as shown by the returns for each of the years 1869-1877. A larger number occurred in May than in any other month of the year 1877, and the least number is shown for July, although the number of deaths is quite evenly distributed throughout several months of the year. Exhibit O shows the relation between the number of deaths from consumption in 1877 and some of the coincident meteorological conditions.

EXHIBIT O.—Consumption.—Deaths from Consumption Returned as having occurred in Michigan during the Year 1877, and some coincident Meteorological conditions.

,	MONTHS IN	Des fom sump	Con.	Daily	an of T	hree ations M., an	,_		•	of Atmo		Ozon Relat Maxis	num	Atmosphere. 32° Fahr.)
ORI	BER OF			Ave				or Per	of Va-	Ounces, of by one per-	from Air hours in inhaled.	ж.	A. M.	of At
	NSUMPTION,		f Total.		to Day, 2 P. M.			Humidity, or	Grains,	Troy Ounces, usled by one po hours, a	10 - 1	M. to 2 P.	M. to 7	Pressure er Reduc
•	GREATEST FIRST.	Number.	Per Cent. of	Daily.	From Day t 2 P. M. to 2	Average.		Relative Hu	Weight, in Grains, por in Cubic Foot	Weight, in Troy O Vapor Inhaled by son in 24 hours.a	Weight, in Troy (Vapor Exhaled passages in 24 excess of vapor	Day,-7 A. 3	Night, -9 P.	Average Pressure of (Barometer Reduced to
Year	r, 1877	b 1,656	100,00	15, 12	17.53	47	7.42	80	3.45	2.16	9.52	3.66	3.33	29.006
ŝ	May	166	10.02	16.52	18,13	58	3,25	66	3,79	2.37	9.31	3.29	2.91	29,066
the Average of Deaths.	April	164	9.90	16.18	19,40	c 46	3,16	70	2.47	d 1.54	10, 14	3.70	4.27	28.974
Dea	Dec	158	9.24	8,77	10.73	c 36	5.57	89	2.39	1.49	10.19	3.17	3.37	29,180
9 g	March	147	8,88	15,29	17.29	c 24	L.51	91	1.53	4 .98	10.72	5.29	6.06	28,981
More than Number	Aug	147	8.88	17.45	19,48	68	3.46	78	5.74	3.59	8.09	3.42	1,03	29.046
Nun	June	145	8.76	17.87	19.00	65	5,93	75	5.32	3.33	8.35	3.17	2,90	29 020
Mod	Feb	139	8.39	14,79	17.71	· 33	2.81	85	1.85	d 1.16	10,52	4.54	4.14	29, 124
Ave:	rage	138	8.83	15.12	17.53	47	7.42	80	3 45	2 16	9,52	3.66	3,33	29.066
	Nov	128	7.78	11,48	13,18	85	5.24	87	2.22	1.39	10,29	3.60	3.73	29,096
be d	Sept	126	7.61	18.97	21.10	< 61	1. <b>2</b> 8	80	4 82	4 3.01	8.67	2.93	1.53	29 121
Less than the Av. No. of Deaths.	Oct	124	7.49	18.71	17.82	c 50	).83	83	3.59	4 2,34	9.44	8,20	8.19	29,077
6 th	Jan	111	6.70	12,58	16.06	18	3.07	91	1.19	.74	10.94	4 87	5.03	29,057
ZX	July	106	6.40	18.39	20,42	e 71	l. 43	70	5.76	d 3.60	8.09	271	1.77	29.005

a See foot-notes to Exhibit K, page 256.

Excluding 8 in unknown month.

Exceptions to the proposition that the Temperature was higher than the average in months when more than the average number of deaths from Consumption occurred, and vice versa.

Exceptions to the proposition that more than an average amount of vapor was inhaled in months in which there was more than the average number of deaths from Consumption, and vice versas.

EXHIBIT N.—Consumption.—By Sex, the Number of Deaths in Michigan from Consumption during the Year 1877, by Months Equalized to Uniform length of 30.44 days each; also the Average Number per Month. (Deaths in unknown month excluded.)

		I	DEATE	s fro	m Con	SUMP	LION I	× 1877,	BY M	ONTH	OF E	QUAL	LENG	TH.
SEX.	TOTAL.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Monthly Av.
Total	<b>a</b> 1,659	109	151	144	166	163	147	104	144	128	122	180	151	138,25
Males	726	50	58	61	86	74	64	47	54	64	44	52	72	60.50
Females.	933	59	93	83	80	89	83	57	90	64	78	78	79	77.75

Including 3 deaths gained in equalizing, and excluding 8 deaths in unknown month. The number of deaths from consumption, as returned, is 1,664.

Pneumonia.—Four hundred and sixty-five (465) deaths from this disease were reported for the year 1877. This is the largest number returned from pneumonia since 1871. The largest proportion of deaths from this disease in 1877 occurred in March, as shown by Exhibit P, although the proportions in the several months are quite uniform throughout the year.

EXHIBIT 17.—PNEUMONIA.—By Months, the Number of Deaths Returned as having occurred from Pneumonia, in Michigan, during each of the Years 1872–1877, and the average for Six Years ending with 1877.

V	TOTALS.				D	RATHS	PROM 1	PRUMO	DRIA, 1	872-187	7.			
YEARS.	TOTALS.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1872	641	46	64	75	79	58	28	26	81	29	56	63	89	•
1873	706	84	110	80	58	63	55	20	29	84	87	65	68	1
1874	800	49	57	108	141	103	46	29	82	46	83	50	93	9
1875	745	85	116	128	88	78	86	21	17	81	42	41	65	9
1876	660	43	71	107	<b>6</b> 8	50	33	20	87	28	38	40	91	1
1877	465	58	56	64	60	89	24	14	23	26	26	85	38	2
Av,for 6 y'rs	670	61	79	94	82	65	87	22	28	32	40	49	74	2

Diagram No. 9.

Jan. Feb.	76, and 1877,	Con	o m	Julie	Lug .	13.	100	
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EXHIBIT 18.—PNEUMONIA.—Deaths Returned as having Occurred in Michigan from Pneumonia in February and March of each of the Years 1872–1877, the Average for the Six Years ending with 1877, and some coincident Meteorological conditions, at the Agricultural College, near the center of the thickly-settled part of the State.

_		m Paeu-	Mean serva	erature of 3 Da dons—7 L, and 9	A.M.	Atmos Etc Mor	dity of sphere, c.,— athly rages.	Ozon Relai Maxii	live.	Snow, in Inches.	of I	Pressur Atmosph of Me aced to	here.
	F EACH OF	he from		rage ige.		dity, or Satura-	Foot	P. M.	A.M.	Snow, f	Rang		1
	YEARS 2-1877.	Number of Deaths.	Daily.	From Day to Day, 2 P. M. to 2 P. M.	Average.	Relative Humidity, Per Cent. of Satur tion.	Weight, in Grains, Vapor, in Cubic F of Air.a	Day,-7 A.M. to 9 P.	Night,-Dr. M. to 7.	Rain and Melted	Monthly.	Average, Dally.	Average Pressure.
•	(February	79	15.84	18.66	22,33	88	1.40	4.97	6.00	1.341	1.101	.164	28.947
Averago	March	94	14.77	16.90	27.77	85	1.63	1.86	6.13	1.996	1,279	.176	28,902
1672	february	64	20.41	23.21	21.34	84	1.23	4.00	6,00	.490	1.107	,111	28,842
4014	) March	75	17.82	19.97	24.75	85	1.32	3.00	5.71	2,040	1.121	.166	28,911
1873	J February	110	14.61	18.71	19.10	91	1.43	4.21	5,93	.770	.842	.197	28.847
2010	March	80	14.16	16.61	28,30	71	1,52	4.09	5.80	1.730	1.307	.218	28,852
1874	february	57	12.82	14.07	25,51	89	1.55	5.53	6.10	1.550	1.387	.171	28,928
1011	March	108	13.52	16.45	32.30	83	2,00	5.00	6.00	1,786	1.081	.133	28,895
1875	february	116	20.14	21.57	8.35	94	.73	5.78	6.57	2.198	1.231	.206	28,875
4010	March	128	15.48	16.68	26,20	87	1.63	5.70	6.19	1.020	1.231	. 163	28,844
1876	February	71	12.76	16.66	27.39	84	1.59	5,76	7.27	3.040	1.033	.176	29.063
4010	March	107	12,84	14.39	30,55	95	1.78	6.06	7.00	4.840	1.812	.223	28,929
1877	february	56	14.79	17.71	32,31	85	1.85	4.54	4,14	.000	1.007	.122	29,124
1011	March	64	15.29	17.29	24.51	91	1.53	5.29	6.06	.560	1.119	.151	28,981

a See foot-notes to Exhibit K, page 236.
b Not corrected for instrumental error previous to 1875. (See Exhibit 12 and remarks thereon, page 251.)

EXHIBIT P.—PNEUMONIA.—Deaths from Pneumonia, returned as having occurred in Michigan during the Year 1877, and some coincident Meteorological conditions.

	Months	f Pn	eaths rom eumo- , 1877.	Mean Obser	of Thr	A. M.,	Hum Etc.	dity o	of Atm	osphere, verages.	Ozor Relat Maxis	ive.	phere. Fahr.)
	NUMBER OF			Ave	rage ige.		or Per	Vapor fr. a	ne per-	from Air hours, in tabaled.*	X.	у. ж.	f Atmoned to 32
1	PNEUMONIA, GREATEST		of Total.		to Day, 2 P. M.		fumfdity, Saturation	Grains, of	Troy Our	Troy Our haled fro in 24 ho vspor fub	M. to 2 P.	M. to 7	ressure o er Reduc
	First.	Number.	Per Cent. of Total.	Dadly.	from Day 2 P. M. to	Average.	Relative Humidity, or Cent. of Saturation.	Weight, in Grains, of Vapor in Cubic Foot of Air.	Weight, in Troy Ounces, of Vapor Inhaled by one per- son in 24 hours, a	Weight, in Troy Ounces, Vapor Exhaled from A passages in 24 hours, excess of vapor inhaled	Day,-7 A.	Night, -9 P.	Average Pressure of Atmosphere. (Barometer Reduced to 32° Fahr.)
[ ear	r, 1877 <b>.</b>	b463	100,00	15,12	17.53	47.42	80	3.45	2.16	9,52	3.66	3.33	29.066
÷ . ;	March	64	13.82	15.29	17.29	24,51	91	1.53	.96	10.72	5.29	6.06	28.981
t b	April	60	12.96	16.13	19.40	46, 16	70	2,47	1.54	10.14	3.70	4.27	28.974
No. of Deaths.	January	58	12.53	12.58	16.06	18.07	91	1.19	.74	10,94	4.87	5.03	29.057
0.0	February	56	12,10	14.79	17.71	32,31	85	1.85	1.16	10.52	4.54	4.14	29.124
	May	<b>39</b>	8.42	16.52	18. 18	58,25	66	3.79	a 2,37	9.31	3,29	2.94	29,056
Ave:	rage	38.6	8.33	15.12	17.53	47.42	80	3.45	2.16	9.52	3.66	3.33	29.066
_ !	December	88	8.21	8.77	10.73	4 36.57	89	2,39	d 1.49	10,19	3.17	3,37	29.180
	November	33	7.58	11.48	13.18	4 35.24	87	2.22	4 1.39	10.29	3,60	8.73	29,099
E P	September	26	5, 62	18.97	21.10	61.28	80	4.82	3.01	8.67	2.93	1.53	29, 121
Less than the Average No. of Deaths.	October	26	5.62	13.71	17.82	50.83	83	3.59	2.24	9.44	3.20	3,19	29,077
No. o	June	21	5.18	17.87	19.00	65.93	75	5.32	3.33	8,35	3.17	2,90	29.020
Z 2	August	23	4.97	17.45	19.48	68.46	78	5.74	3.59	8.09	3,42	1.03	29.046
ă	   Jaly	14	3.02	18.39	20.42	71.43	70	5.76	3.60	8.08	2.71	1.77	29.062

<sup>\*</sup> See foot-notes to Exhibit K, page 256.

\* Excluding 2 in unknown month.

\* Exceptions to the proposition that the Temperature was greater than the average in months when less than the average number of deaths from Pneumonia occurred, and vice versa.

\* Exceptions to the proposition that more than an average amount of vapor was inhaled in months when less than the average number of deaths from Pneumonia occurred, and vice versa.

EXHIBIT 20—Relative Amount of Ozone in Air from 9 P. M. to 7 A. M.,—Night Observations,—by Months, during the Years 1872, 1873, 1874, 1875, 1876, and 1877, and the Average for 6 years ending with 1877; also, the Average for 6 years ending with 1877, from 7 A. M. to 2 P. M.,—Day Observations,—at Agricultural College, near Lansing, Michigan.

		Annual	}			Ozon	е Ова	ERVA	rions,	BY M	ONTHS			
YEA	ARS.	Aver- age.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
	1872	2,82	4.50	4.00	8.00	2,63	2.14	1.91	.88	.98	1.40	1.98	4.60	5.81
	1873	4.02	5.06	4.21	4.09	3.76	4.58	8.26	8.59	3.55	2.30	4.52	4.30	4.97
_	1874	4.10	5.10	5.53	5.00	5.70	5,80	8.50	1.80	2.80	2,90	3.32	3.80	4.00
Day	1875	4.58	5.52	5.78	5.70	8.73	3.19	8,96	3.52	3.50	4,80	5.30	4 90	5.00
	1876	8.68	5.82	5.76	6.06	8.70	8.10	1.87	-2, 16	1.97	2.60	3.45	8.57	4.57
	1877	3.66	4.87	4.54	5.29	8.70	3.29	3.17	2.74	3,42	2,98	8.20	8.60	8,17
Av. for	6 years	3 80	5.06	4.97	4.86	3,87	3.68	2.95	2 44	2.70	2.76	8,63	4.18	4.59
	ſ 1872	4.24	5.44	6.00	5.71	5.30	8.84	3.23	2.28	.99	1.86	8.18	6.17	6.84
	1873	4.63	6,32	5,93	5.90	4.27	4.59	2,66	8.06	2.65	4.27	4.69	5.47	5.89
	1874	3,99	6,39	6.10	6.00	6.60	4.90	2.34	1.50	1.10	1.20	3.01	4.50	4.90
Night	1875	5.04	5.93	6.57	6. 19	3.96	4.03	3.66	3.22	3.70	3.68	6,20	6.60	6.70
	1876	4.11	6,90	7.27	7.00	5.53	4.13	2.27	1.58	1,26	1.73	8.48	8.33	4,81
	1877	3,33	5.03	4.14	6,06	4.27	2,94	2,90	1.77	1,08	1.53	8.19	3.73	8.37
Av. for	6 years.	4.22	6.00	6,00	6,13	4 99	4.07	2.84	2.24	1.79	2.38	3,96	4.97	5.30

6.20 6.00 5.80 5.60 540 5.20 5.00 4.80 4.60 4.40 4.20 4.00 3.80 3.60 340 3.20 3.00 280 2.60 240 220 2.00 1.80 160 1.40 1.20

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bcade = 0.80 to the ench.

CORRELATION OF CONSUMPTION AND PNEUMONIA.

'IABLE XXII.—Cobrelation of Consumption and Pheumonia.—Deaths from Consumption and Pheumonia Returned as having occurred in Michigan during the Year 1877, by Months, Exhibiting the Total Number, Number of each Sex, Per Cent. of Total, and Excess of each Sex.

Number.  Number.  Tec.  Total.  Per Total.  Per Genina	S S S S Z S Total for Year.	Pc. Males	Mates. Ma	Males, Males, 263 263 2 5 36 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Fe. males. 202 b 22 22 33	Total. 463 c 28	Per Cent. of deaths in each Month to Total for Year.	Per Cen Malcs.	Per Cent. of each Sex to Total of hoth Sexes.  Malca. Rc. Excess.  Malca. Rc. Rc. Re. Re.	Bex to Tota exes. Excess.	otal o
Males. Fee. Total. 1266 130 62 130 62 131 1664 10 Fer Cent. Of East 130 62 130	Y Tob lator   8   2 2 2 2 2				Fe. males. 202 22 23 33	Total. 463	Per Cent. of S of one of S Total for Y	Males.	Fe- males.	Exc	B F.
Males. Total. (10) 726 933 1,604 10 b 53 86 139 62 85 147 85 79 164	IntoT   8   2 8 8 8 8	<del></del>			202 b 22 22 33	Total. 463 v 58	Per Ces on and Ses of Tester	Males. 06.56	males.		In Fe
726 833 1,604 10 10 10 10 10 10 10 10 10 10 10 10 10	8 2 2 2 8	<del></del>	~ ~ ~	مم 6	1 ** 1		100.00	96.56	_	Males.	
2 5 1 8 60 133 62 134 63 134 64 65 135 65 65 135 65 135 65 135 65 135 65 135 65 135 65 135 65 135 65 135 65		; ; ;	" -	۵۵ .	1	1			43.44	13.12	
62 86 133 62 85 147 83 147					33	2	12.47	62.07	37.93	24.14	
62 85 147 85 79 164		<u>.</u>			8	3	12.04	60.71	88.83	21.42	
191		_	***	•		3	13.76	48.41	51.56		8.13
		_	00.0	_	84,	8	12.90	56.67	43.33	13.34	
May 8 75 81 166 1	9 98 45.18	54.82	9.64	b 19	84	89	8	48.73	81.38		2.58
b 63 b 82 b 145	8.71 43.45	56.55	13.10	b 15	о Д	<b>75</b> 0	6.16	62.50	37.50	25,00	
July 48 58 106	6.37 45.28	54.72	9.44	9	80	7	3.01	42.86	57.14		14.28
55 b 92 b 147	8.83 37.42	62.59	25.17	13	01 0	ង	4.95	56.53	48.48	13.04	
September b 63 63 126	7.57 50.00	20.00		. b 16	2	56	5,59	61.54	2.48 2.48	23.08	
45 b 79 194	7.45 36.29	63.71	27.43	=	P 14	**	5.59	46.15	53.85		7.7
November 51 77 128 7	7.69 39.84	60.16	20.33		16	8	7,53	Z.	45.71	8.58	
December	17.71 61.71	52.39	4.58	1 27	b 11	88	8.17	71.05	28.92	49.10	
Unknown 2 6 8	.48 25 00	75.00	90.00	-	-	24	æ.	80.00	8.03	-	
Average 60 33 77.67 133.00	8.33 43.72	56 28	12.66	21.88	16.75	88.58	8.83	43,49	56.53		18.16

e grounding useries in ingrown months. • Less than the average number of deaths from Consumption, and more than the average number from Phonmonia, or vice verso,

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.—Correlation of Consumption and Pneumonia.—Exhibiting the Number and Ter Cent. of Death is difference between the Sexes, and the Per Cent. of Total Deaths at each Period of Age from Consumption, in Michigan, during the Year 1877, according to the Returns.	
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			COM	CONSUMPTION	IOM, 1	, 1877.					PXE	PREUMONIA, 1877	A, 187	17.		
AGES IN PERIODS OF		NORBER.		seths to to IIA	PER	CRNT. O.	PER CRAT. OF THE SEXES.	CRO.		NUMBER,		03 9	PER C	PER CENT. OF THE SEXES.	THE SE	XX8
YEARS, 1877.		ğ		na at		å	Excuss.	.88		ų.		SA do		ğ	Excuss.	
	Males.	males.	Total.	Per Ct at ea Deatl Agea	Males,	males.	Males.	Fe. males.	Males.	males.	Total.	Por Ct at ead Deatl Agea	Males.	malcs	Males.	ales of
All Ages, 1877	82	88	1,661	100.00	43.63	56.37		12.74	298	202	994	100.00	56.50	43.44	13.12	
Under 5.	5	8	18	5.83	48.45	51.65	م	8.10	8	8	82	38.71	85.56	41.44	11.12	_
5 to 10	•	런	8	1.08	83.33	68.67	۰	28.82	. E	G3	2	4.52	57.14	42.8K	14.28	م
10 to 15	•	ដ	38	1 92	28,13	71.88	-	43.75	10	c	2	2.15	20.00	20.00		
15 to 20	8	90 v	₹ 147	8.8	26.53	73 47	•	<b>76</b> '9 <b>7</b>	=	9	. 17	3.06	64.71	88.33	27·63	م
20 to 25	<b>28</b>	28.	A 224	13.46	88.88 88.88	61.61		28.23	•		21	93 93 93	14.67	54.83	:	16.66
25 to 30	2	141	A 230	18.22	35.91	97.00	_	23 23 24	22	2	83	£.82	56.55	43.48	13.04	م
30 to 35	7.	8	8	10.16	43.79	56.21	۰	19.42	4	-	13	25.52	41.67	54.33	۰	16.68
35 to 40	2	88	133	7.33	41.28	65.74	•	23 43	œ	<b>6</b> 0	92	3.44	80.00	20.00	م	-
to to 45	<b>\$</b>	5	ಹ	8	42.55	57.45		14.80	=	2	18	4.5	52.38	47.62	4.76	
<b>4</b> 5 to 50	4	ಜ	<b>ಪ</b>	5.05	53.67	46.43	7.14		2	<b>60</b>	83	16.7	66,23	84.78	30.44	
50 to 55	. 45	ಪ	2	4.75	5A.96	43.04	13.92	-	. 1	9	억	2.58	58.33	41.67	16.66	
55 to 60	\$	2	<b>33</b>	65.6	21.69	48.31	8.38	•	7.	=	Ħ	6.38	96.00	41.00	12.00	م
60 to 65	<b>8</b> 8	\$	22	66.7	46.78	54.32	•	8.41	2	=	8	6.30	45.00	95.00	۰	10.00
<b>65</b> to 70	9	8	R	4.75	62.03	87.97	24.06		11	10	81	4.73	77.27	22.73	64.51	
70 to 75	<u>.</u>	84	20	8.8	60,78	89.52	21.56	م	<b>80</b>	6	2	3.66	47 08	52.94	_	5.88
76 to 80	<u> </u>	22	क्ष	1.92	59.38	<b>\$</b> 0.63	18.75	۵	=	6	8	6.3	55.00	45.00	10.00	^
80 and over	•	•	27	27.	20.00	80.08			9	-	7	1.51	12 93	14.29	71.43	-
Unknown	. 13	61	8	1.92	40.63	88.88	۰	18.75	9	-	7	1,51	85.71	14.29	71.42	۰
Average	41.94	8.8	98	P. 77	69 87	56.31	_	10 63	15 19	11.83	10 %	67.94	56 19	43.83	To et	

TABLE XXIV.—Exhibiting, for the State and Eleven Geographical Divisions, in 1877, by Sex, the Number of Deaths Returned as having occurred from All Causes, from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea; also, the Per Cent. of Deaths from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea, to Deaths from All Causes.

STATE				UMP- DM.	PNEU	MONIA.	TYP	HOID	TE	BMIT- NT FEB.	DIAR	RII EA.
AND GBOGRAPHICAL DIVISIONS. •	SEX.	All Causes, 1877.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Deaths from	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.
STATE	Total Males Females. Unk'n	12,919 6,827 6,040 52	1,664 726 938	12.88 10.63 15.53	465 263 202	3.60 3.85 3.34	446 234 212	8.45 8.43 8.51	80 23	.41 .44 .83	290 152 136 2	2.24 2.23 2.25 3.85
Upper-peninsular	Total Males Females Unk'n	685 877 297	52 24 28	7.59 6.87 9.43	20 10 10	2.92 2.65 8.87	8 3 5	1.17 .80 1.63	1	.15 .27	9 11	2,92 2,89 8,70
North-western	Total Males Females.	292 158 134	32 12 20	10.96 7.59 14.93	10 5 5	8.42 8.16 8.73	12 7 5	4.11 4.43 8.78	2 1 1	.68 .63 .75	7 4 8	2,40 2.53 2,24
Northern	Total Males Females. Unk'n	168 95 72 1	8 4 4	4.76 4.21 5.56	3 2 1	1.79 2.11 1.89	8	1.79 8.16			1 1	1.19  1.89 100.00
North-eastern	Total Males Females.	93 51 39	12 5 7	12.90 9.26 17.95	1	1.08 1.85	 		•••••		6 4 2	6.45 7.41 5.13
Wostern	Total Males Females. Unk'n	1,296 690 598 8	175 78 102	13.50 10.58 17.06	46 19 27	8.55 2.75 4.52	46 21 25	8.55 8.04 4.18	1	.15	36 17 19	2.78 2.46 3.18
Northern-central	Total Males Females.	220 116 104	86 19 17	16.36 16.38 16.35	8 3 5	8.64 2.59 4,81	10 5 5	4 55 4.81 4.81			6 2 4	2,78 1.72 8.85

<sup>•</sup> For counties included in each Division, see page 158.
• For counties and townships from which no returns of deaths in 1877 were received, see Exhibit H, page 132; for those in which no deaths occurred, see Exhibit I, page 145.

### TABLE XXIV .- CONTINUED.

			Cons	U VP- ON.	PNEUI	MONIA.	TYP:	HOID	TE	RMIT- NT VER.	DIAR	RH EA.
GEOGRAPHICAL DIVISIONS.	SEX.	All Causes, 1877.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.
į	Total	1,812	220	12.14	61	8.87	63	8.48	13	.72	51	2.81
D	Males	932	82	8,60	87	8.97	87	8.97	6	.64	24	2.58
Bay and Eastern	Females.	872	138	15.83	24	2.75	26	2.98	7	.80	27	8.10
į	Unk'n	8						ļ				
ſ	Total	1,902	257	13.51	95	4 99	82	4.31	5	.26	17	.89
Central	Males	1,000	112	11.20	. 57	5.70	43	4.30	8	.30	13	1.30
CEMINA	Females.	892	145	16.27	39	4.26	39	4.87	2	.22	4	.45
į	Unk'n	10										
(	Total	891	121	13.58	52	5.84	40	4.49	6	.67		
South-western	Males	461	58	12.58	84	7.88	21	4.56	8	.65		
	Females.	428	63	14.72	18	4.21	19	4.44	8	.70	<b> </b>	
į	Unk'n	2			<b> </b> -	ļ						
ſ	Total	2,532	363	14.84	89	3.52	95	3.75	6	.24	10	.39
Southern-Central	Males	1,807	145	11.09	47	8,60	43	8.26	5	.38	9	.69
	Females.	1,228	218	17.83	42	3.43	52	4.25	1	.08	1	.08
Į	Unk'n	2								<b> </b> -		
!	Total	3,028	388	12.81	80	2,64	87	2.87	18	.59	135	4.46
Sant and an	Males	1,637	192	11.78	49	2.93	51	3.12	10	.61	70	4.28
South-eastern	Females.	1,381	196	14.19	32	2.32	36	261	8	.58	64	4.68
	Unk'n	10	<b> </b>							<b> </b>	1	10.00

<sup>•</sup> For counties included in each Division, see page 158.

TABLE XXV.—Exhibiting, for the State, and by Counties, for the Year 1877, the Number of Deaths from All Causes, from Consumption, Pneumonia. Typhoid Fever, Intermittent Fever, and Diarrhea; also the Per Cent. of Deaths from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea, to Deaths from All Causes.

					EONIA.	111110	Fever.		r Fever.	Dia	RBHBA.
STATE AND COUNTIES.	All Causes, 1877.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Deaths	ber of	Per Cent. to Deaths from Al Causes
State	12,919	1,664	12.88	465	3.60	446	8.45	53	.41	290	2,2
Alcona	11	1	9.09								
Allegan	249	82	12.85	22	8.84	12	4.82	4	1.61		
Alpena	35	5	14.29							2	5.7
Antrim	52	1	1.92	2	3.85	8	5.77				
Baraga	20		••••	1	5.00					•	
Barry	216	29	18,43	17	7.87	6	2.78			2	,91
Вау	287	24	8,36	7	2.44	10	8.48	2	,70	8	2.79
Benzie	32	5	15.63	8	9.38						
Berrien	258	88	14.73	10	8.88	18	5.04	2	.78		
Branch	281	89	13.68	11	8.91	9	3,20	1	.36		
Calhoun	830	52	15.76	7	2,12	15	4,55	1	.80	2	.61
Cass	166	19	11.45	8	4.82	10	6.02				
Charlevoix.	32	4	12.50							2	6,25
Cheboygan	28	2	7.14	1	8.57						
Chippewa	11			_							
Clare	18					2	11.11				
Clinton	182	28	12.64	9	4.95	11	6.04			1	.65
Deita	50	4	8.00	4	8.00		0.02		***************************************	•	
Eaton	215	84	15.81	9	4.19	7	8.26				
Emmet	33	04	10.01	•	2.1"	•	3.20		****		
Genesee	268	23	8.58	18	6.72	8	2.99			4	1.49
	208	. 20	8.08		12.50	9	25.00			•	1.99
Gladwin	-			1		_			*****		
G. Traverse	67	6	8.96	9	2.99	5	7.46			•••••	
Gratiot	145	21	14.48	1	.69	8	5.52	1	.69		
Hillsdale	287	46	16.03	9	8.14	13	4.53	1	.85	1	.85
Houghton	258	23	8.70	8	1.19	8	1. 19	1	.40	12	4.74
Huron	87	11	12.64	8	8,45			•••••		1	1.15
Ingham	181	81	17.18	6	3.31	7	8.87	1	.55	1	.55
Ienia	211	85	11.85	6	2,84	6	2.84	1	.47	8	1.42
Iosco	28	5	17.86	1	8.57					8	10.71
Isabella	72	17	23.61	2	2.78	5	6.94			2	2.78
Isle Royal.											
Jackson	366	46	12.57	18	4.92	7	1.91	1	.27	3	.82
Kalamazoo	817	50	15.77	12	3.79	8	2.53	1	.82	2	.63
Kalkaska	18	1	5.56								
Kent	633	93	14.69	12	1.90	28	8.63	1	.16	26	4.11
Keweenaw.	66	1	1,52	1	1.52	2	8.03			1	1.59
Lake	20	4	20,00	8	15.00	1	5,00	<b></b> .			
Lapeer	229	22	9.61	15	6.55	14	6,11	2	.87	5	2.18
Leelanaw	48	4	8.33	3	6.25			J		1	2,08
		_		18	2.88	21	5.38	1	.26	1	.26
Lenawee	390	43	11.03	10	4.00	21					

<sup>.</sup> No returns of deaths to this Department.

TABLE XXV.—Continued.

		Consu	MPTION.	PNEU	MONIA.	Түрноп	D FEVER.	INT'M'N	r Fever.	DIA	RBHEA.
COUNTIES.	All Causes, 1877.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Deaths	Num- ber of Dea's.	Per Cent. to Deaths from All Causes.
Mackinac	16	6	87.50						l	2	12.50
Macomb	269	89	14.50	5	1.86	5	1.86			6	2.23
Manistee	101	8	7.92			7	6.93	2	1.98	6	5,94
Manitou	10	5	50,00		l		l		l <u></u>		l
Marquette	232	18	7.76	7	3.02	3	1.29	<b> </b>		3	1.20
Mason	84	5	14.71	4	11.76					•••••	<b> </b>
Mecosta	60	13	21.67	1	1.67	<b> </b>				4	6.67
Menominee.	14	<b> </b>								2	14,29
Midland	58	6	10,34	4	6,90	1	1.72			l	
Missaukee	9			1	11.11						<b> </b>
Monroe	265	85	18.21	6	2,26	10	8.77	5	1.89	2	.75
Montcalm	144	13	9.03	12	8.83	6	4,17	1	.69	3	2.08
Muskegon	115	15	13.04	5	4.35	8	6.96			1	.87
Newaygo	64	11	17. 19	4	6.25	8	4.69	1	1.56		<b> </b>
Oakland	324	55	16.98	13	4.01	10	3.09	1	.81	4	1.23
Oceana	92	16	17.39	8	3.26	8	3.26			4	4,85
Ogemaw											
Ontonagon	18	1	5.56	4	22,22						
Osceola	64	9	8,13	5	7,81						
Otsego	6	<b> </b>									
Ottawa	274	29	10.58	10	8.65	8	2.92			5	1.82
Presque Isle	19	1	5.26							1	5.26
Roscommon.	4										
Saginaw	585	77	14.30	12	2.24	11	2,06	5	.93	16	2.99
Sanilac	186	20	10.75	8	4.30	10	5.38	1	.54	6	8.23
Schoolcraft.	5										
Shiawassee_	158	20	12.66	8	5.06	10	6.33	1	.63		
St. Clair	824	44	13,58	10	3.09	11	3.40	8	.93	12	8.70
St. Joseph	199	29	14.57	5	2.51	8	4.02				
Tuscola	164	22	13,41	6	8.66	. 7	4.27			3	1.83
Van Buren	218	33	14.63	12	5 50	5	2,29				
Washtenaw.	862	58	16.02	14	3.87	14	8.87			1	.23
Wayne	2,170	259	11.94	56	2.58	62	2,86	12	.55	123	5.67
Wexford	25	4	16.00	1	4.00						

<sup>\*</sup> County clerk says no returns from the supervisors.

TABLE XXVI.—Exhibiting, for the State and Eleven Geographical Divisions of Michigan, by Sex. the Number of Deuths Returned as having occurred at All Ages, from Old Age, of All Aged 70 and Over, and of All Aged Under 5; also the Per Cent. of Deaths from Old Age, of All Aged 70 and Over, and of All Aged Under 5, to Deaths at All Ages for the Year 1877.

			OLI	AGE.		VER.	AGED 1	UNDER 5.
STATE AND GEOGRAPHICAL DIVISIONS.*	SEX.	All Causes, 1877.	Number of Deaths.	Per Cent. to Deaths at All Ages, by Geo- graphical Divisions.	Number of Deaths.	Per Cent. to Deaths at All Ages, by Geo- graphical Divisions.	Number of Deaths.	Per Cent. to Deaths at All Ages by Geo- graphical Divisions.
	Total	12,919	489	3.79	1,331	10.80	5,207	40.30
ĺ	Males	6,827	248	3.63	802	11.75	2,855	41.89
STATE	Females	6,040	241	3.99	529	9.76	2,311	38.26
. [	Unknown	52			<b> </b>		41	78,85
	Total	685	9	1.31	21	8.07	439	64.09
	Males	877	6	1,59	15	3.98	225	59.68
Upper-peninsular	Females	297	3	1.01	6	2.02	206	69.36
ţ	Unknown	11			ļ		8	72.75
ſ	Total	292	8	2.74	22	7.53	138	47.26
North-western	Males	158	4	2,53	14	8,86	87	55,06
. (	Females	134	4	2,99	8	5.97	51	38.06
(	Total	168	1	.60	10	5.95	91	54.17
Northern	Males	95	1	1.05	9	9.47	58	61.05
	Females	72		*********	1	1.89	33	45.88
į.	Unknown	1						
ſ	Total	93					49	52.69
North-eastern	Males	54					29	53.70
i	Females	39					20	51.28
į	Total	1,296	33	2.55	102	7.87	567	43,75
Western	Males	690	25	3.62	71	10,29	303	43.91
44 698CTH	Females	598	8	1,34	81	5.18	256	42.81
ί	Unknown	8					8	100.00
ſ	Total	220	5	2,27	12	5.45	97	44.00
Northern-Central	Males	116	2	1,72	5	4.81	57	49.14
· ·	Females	104	- 3	2,88	7	6,78	40	38,46

a For counties included in each Division, see page 158.
b For counties and townships from which no returns of deaths in 1877 were received, see Exhibit H, page 132; for those in which no deaths occurred, see Exhibit I, page 145.

### CAUSES OF DEATH,-OLD AGE, ETC.

### TABLE XXVI.—Continued.

			OLD	Age.		70 AND VER.	AGED U	INDER 5.
GEOGRAPHICAL DIVISIONS.*	SEX.	All Causes, 1877.	Number of Deaths.	Per Cent. to Deaths at All Ages, by Geo- graphical Divisions.	Number of Deaths.	Per Cent. to Deaths at All Ages, by Geo- graphical Divisions.	Number of Deaths.	Per Cent. to Deaths at All Ages, by Geo- graphical Divisions.
	Total	1,812	64	3.53	141	7.78	856	47.24
	Males	932	31	3.33	75	8.05	456	48.93
Bay and Eastern	Females	872	33	3.78	66	7,57	392	44.95
	Unknown	8					8	100,00
	Total	1,902	67	3.52	213	11.20	721	37,91
	Males	1,000	25	2.50	122	12.20	410	41.00
Central	Females	892	42	471	91	10 20	304	34.08
	Unknown	10					7	70.00
	Totak	891	38	4 26	121	18.58	259	32.44
South-western	Males	461	22	4.77	77	16,70	152	32,97
South-Western	Females	428	16	8.74	44	10,28	135	31.5
	Unknown	2		**********			2	100,00
	Total	2,532	131	5,17	398	15,72	758	29.94
	Males	1,307	70	5,36	245	18,75	421	32,2
Southern-Central	Females	1,223	61	4,99	153	12.51	335	27.89
	Unknown	2				*********	2	100.00
	Total	3,028	133	4,39	291	9.61	1,202	39.70
	Males	1,637	62	3.79	169	10.32	657	40.13
South-eastern	Females	1,381	71	5.14	122	8,83	539	39.0
	Unknown	10					8	60.0

<sup>•</sup> For countles included in each Division, see page 158.

TABLE XXVII.—Exhibiting, for the State and Counties of Michigan, the Number of Deaths Returned as having occurred at All Ages, from Old Age, of All Aged 70 and Over, and of All Aged Under 5, in 1877; also the Per Cent. of Deaths from Old Age, of All Aged 70 and Over, and of All Aged under 5 to Deaths at All Ages.

	ALL AGES.	Orp	Age.	AGED 70	AND OVER.	AGED U	Jnder 5.
STATE AND COUNTIES.	Number of Deaths.	Number of Deaths.	Per Ct. to Deaths at All Ages.	Number of Deaths.	Per Ct. to Deaths at All Ages.	Number of Deaths.	Per Ct. to Destha at All Ages.
STATE	12,919	489	3,79	1,831	10.80	5,207	40,30
Alcona	111						45,45
Allegan	249	12	4.82	81	12.45	87	34.94
Alpena	35					21	60.00
Antrim	52			4	7.69	28	53.85
Baraga	20			1	5,00	10	50.00
Barry	216	8	8.70	29	13,48	99	45.83
Bay	287	8	2.79	9	8.14	166	57.84
Benzie	32			8	9.38	12	37,50
Berrien	256	12	4.65	99	11.24	90	34.88
Branch	231	9	3,20	33	11.74	94	33.45
Calhoun	330	13	3.94	47	14.24	109	33.03
Cass	166	4	2.41	27	16.27	53	31.93
Uharlevoix	82	1	8.13	2	6.25	14	48.75
Cheboygan	28	l		l		15	53.57
Chippewa	111			9	18.18	5	45.45
Clare	18	1	5.56	ī	5.56	8	44.44
Clinton	182	2	1,10	16	8.79	63	36.26
Delta	50	-		1 1	2.00	97	54.00
Eaton	215	5	2.33	30	13.95	73	33,95
Emmet	32	ļ		1 2	6.25	21	65.63
Genesee	268	10	3.73	81	11.57	104	38.81
Gladwin	8	10	3,13	91	11.57	8	37.50
Grand Traverse.	67	4	5,97	7	10.45	22	32,84
Gratiot	145	2	1.38	6	4.14		3,000
Hilisdale	287	14	4.88	87	12.89	64	44,14
Houghton	253	1 1	.40	84		86	29,97
	87	5	5.75	7	1.58	175	69,17
HuronIngham	181	10	5.52	24	8.05	47	54.02
Ionia	211	14		24 28	18.26	57	31,49
	211	14	0.64	26	13.27	75	35.55
Tookatta	72					15	53,57
Isabolia	12	1	1,39	2	2.78	36	50,00
Isle Royal	366						
Jackson		13	8.55	41	11.20	121	83.06
New Year Control of the Control of t	817	18	5.68	44	13.58	84	26.50
	18-			1	5.56	12	66.67
Kent	633	12	1,90	43	6.79	264	41.71
Keweenaw	66			1	1.69	45	68.18
Lake	20			1	5.00	8	40,00
Lapeer	229	7	3,06	18	7.86	96	41.92
Leelanaw	48	2	4.17	5	10,42	24	50.00

<sup>·</sup> No returns of deaths to this Department.

# CAUSES OF DEATH,—OLD AGE, ETC.

### TABLE XXVII, -CONTINUED.

	All Ages.	OLD	Age.	AGED 70 A	ND OVER.	AGED U	INDER 5.
COUNTIES.	Number of Deaths.	Number of Deaths.	Per Ct. to Deaths at All Ages.	Number of Deaths.	Per Ct. to Deaths at All Ages.	Number of Deaths.	Per Ct. to Deaths at All Ages.
Lenawee	390	80	7,69	81	20.77	99	25,88
Livingston.	182	6	3,30	23	12.64	59	82,43
Mackinso	16	4	25.00	5	81.25	5	81.25
Macomb	269	12	4.46	84	12.64	108	40, 15
Manistee	101	1	.99	3	2.97	60	59,41
Maniton	10			1	10.00		
Marquette	232	1	.43	4	1.72	152	65,52
Masou	34			1	2.94	18	52,94
Mecosta	60	2	8.83	5	8.33	28	46.67
Menominee	14	1	7.14	1	7.14	11	78,57
Midland	58	1	1.72	4	6.90	20	34.45
Missaukee	9	1	11.11	3	83.83	. 4	44.44
Monroe	265	9	8.40	35	18.91	106	40,00
Montcalm	144	4	2.78	7	4.86	71	49.31
Muskegon	115	3	2.61	5	4.85	52	45.21
Newaygo	64	2	3.13	9	14.06	23	85,94
Oakland	321	17	5,25	59	18.21	\$8	27.16
Oceana	92	4	4.85	10	10.87	44	47.83
Ogemaw			ļ				
Ontonagon	18	2	11.11	2	11.11	7	83,89
Osceola	64	5	7.81	7	10.94	20	45.81
Otsego	6			1	16.67	1	16.67
Ottawa	274	7	2.55	26	9.49	129	47,08
Presque Isle	19			l		8	42,11
Roscommon	4	<u> </u>		ļ		2	50.00
Saginaw	535	18	3.86	40	7.48	279	52,15
Sanilac	186	5	2,69	18	9.68	79	42,47
Schoolcraft	5	l		l		2	40,00
Shiawasses	158	6	3.80	19	12.02	53	83,54
St. Clair	324	17	5.25	37	11.42	130	40.12
St. Joseph	199	12	6.03	38	19.10	64	32,16
Tuscola	164	4	2.44	12	7.32	59	85 98
Van Buren	218	10	4.59	84	15,60	59	27.06
Washtenaw	362	22	6.08	77	21,27	101	27.90
Wayne	2,170	95	4,38	163	7.51	900	41.01
Wexford	25	l	l	I	1	16	64,00

<sup>•</sup> County clerk says no returns from supervisors.

36—1877.

	Unknown.		- 82	_	_ :	7	6	22	•	_ :	•	22	•	•	_:	*	30	04	21	
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	SEX AND OCCUPATION.		TOTAL DEATHS	FROM	Соивтигном.				FRMALES.					MALES.				Occupations	Unknown,	
	SEN		TOTA	_	Cows				Ä					×				Ocer	Un	1
		Fotal	_			Unknown.	Fotal	Married		Widowed.	Unknown.	Fotal	Married	<u></u>	Widowed	Unknown.	rotal		<u></u>	
	COMPUTION.	1,664 Total	896 Married Tota	507 Single	121 Widowed. Cons	80 Unknown.	938 Total	514 Married	307 Single Fr	80 Widowed.	37 Unknown.	726 Total	382 Married	260 Single } M	41 Widowed	43 Unknown.	274 Total	97 Married Occu	108 Single   Un	
		8 1,664 Total	_	Single		3 80 Unknown.	6 938 Total	8 514 Married	Single	80 Widowed.	3 S7 Unknown.	2 726 Total	2 382 Married	Single	41 Widowed.	43 Unknown.	4 274 Total		Single	
	YEAR, CONJUGAL 1877. CONDITION.		896 Married	507 Single	121 Widowed.	86			807 Single			_		260 Single			21 4 274 Total ]		108 Single	_
	Unknown, Year, Conjugal.	1 00	5 896 Married	507 Single	. 121 Widowed.	86	9	00	307 Single	:		64	e,	260 Single			16 21 4 274 Total	1 97 Married	108 Single	_
	December. Unknown, 1877. COMPITION.	153 8	5 896 Married	507 Single	13 121 Widowed.	7 3 80	9	00	19 807 Single	:	60	52	6 08	28 260 Single	1 00		21 4	1 97 Married	11 108 Single	_
	Мотеmbет. Весембет. Оваритова. Сомотнова.	128 153 8	77 86 5 896 Married	507 Single	13 121 Widowed.	7 3 80	9	00	19 807 Single	. 6 10	60	51 73 2	6 08	12 28 260 Single	1 00		21 4	1 97 Married	3 11 108 Single	_
877.	Уочетьет. Весетьет. Тяав, Сомитом.	124 128 153 8	66 77 86 5 896 Married	39 34 47 - 567 Single	13 8 13 121 Widowed.	7 3 80	9	00	24 22 19 307 Single	. 6 10	60	45 51 73 2	24 33 39 2	15 12 28 260 Single	1 00	80 80	24 16 21 4	7 4 5 1 97 Married	12 3 11 108 Single	_
	Бертешрет, Осторет. Почетьет. Тяля, Сомитель. Тяля, Сомитель.	126 124 128 153 8	70 66 77 86 5 896 Married	42 39 34 47 507 Single	13 8 13 121 Widowed.	7 3 80	63 79 77 80 6	34 42 44 47 8	22 24 22 19 307 Single	6 10 6 10	1 3 5 4 3	63 45 51 73 2	36 24 33 30 2	20 15 12 28 260 Single	00	80 80	18 24 16 21 4	8 7 4 5 1 97 Married	7 32 3 11 108 Single	_
тв., 1877.	Аиgust. Верtешber. Осtober. Мочешber. Песепрег. Твая, Сомитиом.	5 106 147 126 124 128 153 8	80 70 66 77 86 5 896 Married	42 39 34 47 507 Single	13 8 13 121 Widowed.	7 3 80	92 63 79 77 80 6	55 34 42 44 47 3	29 22 24 22 19 807 Single	6 10 6 10	1 3 5 4 3	55 63 45 51 73 2	36 24 33 30 2	20 15 12 28 260 Single	00	80 80	29 18 24 16 21 4	8 7 4 5 1 97 Married	7 32 3 11 108 Single	_
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T H 8,	June. July. August. December. December. December. Tara. Condition.	166 145 106 147 126 124 128 153 8	80 70 66 77 86 5 896 Married	50 37 57 42 39 34 47 507 Single	12 11 7 10 13 8 13 121 Widowed.	7 7 3 4 6 9 7 3 80	58 92 63 79 77 80 6	47 26 55 34 42 44 47 8	27 23 29 22 24 22 19 807 Single	7 7 5 6 10 6 10	1 2 3 1 3 6 4 3	63 48 55 63 45 51 73 2	29 25 25 36 24 33 39 2	23 14 28 20 15 12 28 260 Single	00		28 21 29 18 24 16 21 4	12 8 15 8 7 4 5 1 97 Married	7 11 7 12 3 11 108 Single	_
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## CAUSES OF DEATH,—CONSUMPTION.

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esjUnknown.   )	188 Total	68 Married	71 Mingle	16 Widowed.	28 Unknown.	91 Total	29 Married	37 Single	5 Widowed	20 Unknown.	1,330 Total	799 Married	459 Single	100 Widowed.	32 Unknown.	756 Total	446 Married	236 Single }	64 Widowed	9 Unknown.	635 Total	353 Married	228 Single	36 Widowed	28 Unknown.
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	_		2	16 Widowed.	3 3 28 Unknown. J	9 1 91 Total )	Married	37 Single	b Widowed	2 20 Unknown.	132 4 1,230 Total			18 100 Widowed			446 Married			<del></del>	64 1 635 Total	<u> </u>			<u> </u>
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	19 3	68 Married	2	1 1 3 2 16 Widowed.	1 2 1 2 5 3 3 28 Unknown.	6 6 7 4 3 9 1 91 Total	Married	37 Single		1	108 106 12 132 4	73 81 4 799 Married	459 Single	:	- 1	52 59 64 68 3	36 41 45 3 446 Married	15 19 12 236 Single	- 64 Widowed	9 Unknown.	11 48 64 1	34 23 32 36 1 353 Married	17 12 12 24 223 Single	4 3 1 5 86 Widowed	28 Unknown.
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TABLE XXVIII.

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	CONDITION.	246 Total	168 Married	Single	Widowed.	2 Unknown.	ST Total	20 Married	Single	Widowed.	Unknown.	47 Total	29 Married	Single	Widowed.	Unknown.	30 Total	20 Married	10 Single	107 Total
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Unknown.

January.

#### VITAL STATISTICS OF MICHIGAN, 1877.

SU and over. 6 18 03 94 1 cto 20 10 10 AGES IN PERIODS OF TRABS, 1877. 24 1 65 to 70, 3 19 60 to 65. .00 01 66 24 17 2 42 10 20 10 10 42 93 35 to 40. TABLE XXVIII.—Continued.—Deaths from Consumption, 1877. × 30 to 32. 52 to 30' 18 20 to 25. --12 to 50. in to 10. ol 03 g Under 5. į i Farm Laborers. Farmers' Sons. OCCUPATION Carpenters. SEX AND Gardeners. Florists. Painters. Farmers. CLASS II. Joiners. Masons. CONDITIOM. Married ... Married ... Aingle .... Single.... Single.... Married ... Total ..... CONSTGAL Total Married ... Unknown. Single .... Married ... Unknown. Total ..... Widowed. Married... Total Widowed. Married. 1877. пимпиши. : December. --November, 6 October, September. MONTHS, 1877. August. 10 July, June. May. April. Матећ. 9 : February.

Ship builders.
CLASS 111.
Blacksmiths.
Boller-makers.
Brewers.
Cabinet-makers
Clothes Cleaners
Coopers.
Confectioners
Engineers.
Finishers.
Gilders.
Gunsmiths.
House-keepers.
Locksmiths.
Machinists.

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TABLE XXVIII.—Continued.—Deaths from Consumption,		SEX AND OCCUPATION.	۔	Mechanics.		Millers.	Millwrights.	Spinners.	Stone.cutters.	Tanners.	Tinsmiths.	Uphoisterers.		Wagon-makers.		Weavers	Wood Turners.	CLASS IV.	_	Barbers.	<u> </u>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Cigar-makers
NTINUE		CONDITION.	Total	Married	Single	Married	Widowed	Unknown.	Married	Widowed	Married	Single	Total	Married	Single	Married	Single		Total	Married	Single	Total	Married
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	COMPUTION.	10 Total	Married	Single	Widowed.	48 Total	31 Married	Single	10 Widowed	8 Single	27 Total	23 Married	Widowed.	Widowed	Married	Married	Total	Married	Single	214 Total	62 Married	36 Single
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JUnknown.	18% Total	153 Married	7 Single	18 Widowed	4 Unknown.	39 Total	17 Married	18 Single	4 Widowed	f Total	2 Married	2 Single	1 Widowed	1 Unknown.	Married	Married	1 Widowed	6 Total	Married	5 Single	Married	9 Total	1 Married	1 Sing10	2 Single	Married	Married
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TABLE XXVIII.—CONTINUED.—Dealls fram Con	usumption, 1877.
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	SEX AND OCCUPATION	Sailo	. Sailors' Wives.	<u>-</u>	.   } Seamstresses.	<del></del>		Servants.	<del>-</del>	Students.	Tailoresses.			-   Teachers.	<del>-</del>	<u>-</u>		Unemployed	<del>-</del>	Washer. Women.	Weavers.	Wives
	CONDITION. OCCUPA	Married. Sallo	Married Sailors'	Total	Married   Seamst1	Single	Total	<u></u> -	Widowed.		Married Tailore	Total	<del>-</del>	<u></u>	Unknown.	Total	=	<del>^_</del>	Widowed.			
3	CONDITION.			3 Total	<del></del>	1 Single	5 Total	4 Single Serva	1 Widowed.	9 Single Stude		26 Total	7 Married	16 Single	3 Unknown.	125 Total	24 Married	95 Single	6 Widowed.	. 2 Married Washer.	1 Widowed . Wea	
	CONJUGAL CONDITION.				Married	1 Single	5 Total	<u></u> -	1 Widowed.	Single	Married	28 Total	Married	Single	3 Unknown.	2 125 Total	Married	Single		Married		Married
	TRAB, CONSTRAIL STT. CONSTITUTION.		1 Marriod	20	Married	- 1	10	4 Single	10	9 Single	Married	8	7 Married	16 Single	60	_	24 Married	95 Single		. 2 Married	1 Widowed .	Married
	YEAR, CONJUGAL 1877, CONDITION.		1 Marriod	20	Married	-	10	4 Single	-	1 9 Single	Married	8	7 Married	16 Single	60	01	24 Married	95 Single		2 Married	I I Widowed .	Married
	December.  December.  ONNIGHT.  CONDITION.		1 Marriod	20	Married		10	4 Single	10	9 Single	Married	8	7 Married	16 Single	60	00	1 2 24 Married	7 95 Single		2 Married	1 Widowed .	Married
	Xovember. December. Sepa. Constraint.		1 Marriod	20	Married	- 1		4 Single	10	1 9 Single	Married	8	7 Married	16 Single	60	80	2 1 2 24 Married	6 7 95 Single		2 Married	I I Widowed .	Married
	October.  November.  December.  December.  Servember.  Oonding		1 Marriod	20	Married			4 Single	10	1 1 9 Single	Married	1 1 26	7 Married	1 1 16 Single	60	10 8 8 2	2 1 2 24 Married	7 6 7 95 Single	9	2 Married	I I Widowed .	Married
	September.   October.   November.   December.   December.   Onverse.		1 Marriod	20	Married			4 Single	10	1 1 9 Single	Married	1 1 1 28	1 7 Married	1 1 16 Single	60	14 10 8 8 2	2 1 2 24 Married	9 7 6 7 95 Single	9	2 Married	1 1 Widowed .	1 Married
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. 1001	August, September, October, Tovember, December, Tovember		1 1 Married		2 Married		5	1 4 Single		1 1 9 Single	Married	8 5 1 1 1 26	2 1 7 Married	1 1 16 Single	60	14 10 8 8 2	1 1 8 3 9 1 2 24 Married	5 10 9 7 6 7 95 Single	9	2 Married	1 Widowed .	Married
ALCA TES, TOTT.	June, June, June, August., September. November. December. To Thinnown.	1 d Married	1 1 Married		2 Married		5	1 4 Single		1 1 9 Single	Married	8 5 1 1 1 26	2 1 7 Married	1 1 16 Single	60	11 9 11 14 10 8 8 2	1 1 8 3 9 1 2 24 Married	5 10 9 7 6 7 95 Single	9	2 Married	1 Widowed .	Married
. 1001	May.  June.  July.  August.  September.  October.  Docember.  Docember.  Docember.  September.  Tovember.  Tovember.  September.  Tovember.  Tovember.	1 d Married	1 Married		2 Married			1 4 Single		8 1 1 9 Single	1 2 Married	8 5 1 1 1 26	2 1 7 Married	1 1 16 Single		8 11 9 11 14 10 8 8 2	1 1 8 3 9 1 2 24 Married	4 9 5 10 9 7 6 7 95 Single	9	2 Married		Married
. 1001	April.  May.  June.  June.  July.  September.  September.  Sovember.  Doccomber.  Joycombe	1 d Married	1 Married		2 Married			2 1 4 Single		8 1 1 9 Single	1 1 2 Married	1 8 6 8 5 1 1 1 28	2 2 2 1 7 Married	1 1 4 2 2 1 1 16 Single		12 8 11 9 11 14 10 8 8 2	1 1 8 3 9 1 2 24 Married	11 4 9 5 10 9 7 6 7 95 Single	9	1 1 2 Married	1 Widowed .	Married

EXHIBIT Q.—The Average Age of the Inhabitants of Michigan, of both Sexes, of each Sex, and the difference between the Sexes, for All Living June 1, 1870, and All Returned as having Died during the Year ending June 1, 1870, as Compiled from the U.S. Census of that date; for All Returned as having Died from Consumption during the Years 1870 to 1877, inclusive, as shown by the Registration Returns; for All Living Aged 20 and Over as per Census June 1, 1870; for All Aged 20 and Over whose Ages and Occupations were stated in the Registration Returns of Deaths for the Years 1870 to 1877, inclusive, and for the Native and Foreign-born Inhabitants Returned as having Died during the Years 1873 to 1877, inclusive.

	YEAR	Aver. Hun	GE AG	e in Ye hs of a	ars and Year.
	Ending:	Total.	Males.	Fe- males.	Excess, Males.
Deaths, as per Census	}June 1, 1870. }	24.79 24.32 38,23	25.17 24.91 88.61	24.39 28.68 37.80	.78 1.23 .81
Deaths, as shown by Registration Returns  Deaths from Consumption, by Registration Returns	] [	23.50 34.95	24.05 86.89	22.89 33.14	1.16 8.75
All aged 20 and over whose occupations were stated in Registration Returns of Denths.  "Average years of life" after the age of 20 years, as shown by Table VII., page 197, Report for 1872, plus 20 years,—indicating the "Average Age at Death" of an who died aged 20 years and over according to that Life Table.	} Dec. 31, 1970.	51.01	52,45 63,72		6.49 1.70
Deaths, as shown by Registration Returns.	,	25.63	26.78	1	2.28
All aged 20 and over whose occupations were stated in Registration Returns of Deaths	Dec. 81, 1871.	51.44	52,79		6.34
Deaths, as shown by Registration Returns Deaths from Consumption, by Registration Returns	] [	24.17 35.05	25.89 39,10		1,92 7.91
All aged 20 and over whose occupations were stated in Registration Returns of Deaths	Dec. 31, 1872.	50.78	51,90	47.08	4.82
All who died aged 20 years and over, as shown by Registration Returns	J į	49.72	51.67	47.42	4.25
Deaths, as shown by Registration Returns	) (	31,20	31.95	30.14	1.81
tration Returns.  Deaths of Foreign-born Inhabitants, as shown by Regis		27.25	27.76	26.71	1,05
tration Returns	Dec. 31, 1873.	48.87 87.81			-1.67 4.48
All aged 20 and over whose occupations were stated in Registration Returns of Deaths	i	50.17	1		8.24
All who died aged 20 years and over, as shown by Registration Returns	1	49,87	ļ		3.89
Deaths, as shown by Registration Returns	í (	25.33	1		.83
Deaths of Native-born Inhabitants, as shown by Registration Returns	1	20.26	23.99	20.25	3.74
Deaths of Foreign-born Inhabitants, as shown by Registration Returns	Dec. 81, 1874.	47.15			1.86
Deaths from Consumption, by Registration Returns All aged 20 and over whose occupations were stated in		36.48			6.40
Registration Returns of Deaths All who died aged 20 years and over, as shown by Regis- tration Returns		50,89	1	1	4.1
Deaths, as shown by Registration Returns	,	25,32			1.9
Deaths of Native-born Inhabitants, as shown by Registration Returns	li l	20.17		1	
Deaths of Foreign-born Inhabitants, as shown by Registration Returns		46.90			
Deaths from Consumption, by Registration Returns All aged 20 and over, whose Occupations were stated in	Dec. 31, 1875. {	35.77	1		4.6
Registration Returns of Deaths	Dec. 31, 1818.	51.07		1	5.4
tration Returns.  Deaths of Native-born Inhabitants aged 20 years and		50.65			
over, as shown by Registration Returns Deaths of Foreign-born Inhabitants aged 20 years and		50.63			6.2
over, as shown by Registration Returns		50,77	52.37	48.54	3,8

#### EXHIBIT Q.—CONTINUED.

	YEAR	Average Age in Years a Hundredths of a Year			
	Ending:	Total.	Males.	Fe- males.	Excess, Malea
Deaths, as shown by Registration Returns	) (	25,83	26.79	25.04	1.75
Deaths of Native-born Inhabitants, as shown by Registration Returns		20.86	21,84	20.60	.74
Deaths of Foreign-born Inhabitants, as shown by Registration Returns	!! !	47.33	48.91	46.68	2.23
Deaths from Consumption, by Registration Returns		85.70	40.20		6.80
All aged 20 and over whose occupations were stated in Registration Returns of Deaths	Dec. 31, 1876.	51.93	54.00	49.89	4.11
All who died aged 20 years and over, as shown by Registration Returns		51,94	63.91	49.88	4.08
Deaths of Native-born Inhabitants aged 20 years and over, as shown by Registration Returns		51.09	51.46	48,92	5.54
Deaths of Foreign born Inhabitants aged 20 years and over, as shown by Registration Returns	[] {	52,25	53.70	51.96	1.74
Deaths, as shown by Registration Returns	) (	25.89	26,44	25.44	1.00
Deaths of Native-born Inhabitants, as shown by Registration Returns		20.30	20.22	20,57	35
Deaths of Foreign-born Inhabitants, as shown by Registration Returns		49.51			2.31
Deaths from Consumption, by Registration Returns All aged 20 and over whose occupations were stated in		36,34	39.42	33.94	5.48
Registration Returns of Deaths	Dec. 31, 1877.	51.71	53.89	49.55	4.34
tration Returns	!	51.89	54.03	49.65	4.38
Deaths of Native born Inhabitants aged 20 years and over, as shown by Registration Returns		51.25	54.13	48.43	5.70
Deaths of Foreign-born Inhabitants aged 20 years and over, as shown by Registration Returns	} {	53.01	58,95	51.78	2.17

Table XXIX. shows the average age of all decedents in Michigan returned for 1877 aged 20 years and over; of all whose occupations were stated, aged 20 years and over, and of all whose occupations were not specified aged 20 years and over. The average age of all the decedents aged 20 years and over was 51.54 years, and of the twelve classes of occupations there are four which show a greater than average age, viz: Cultivators of the Earth, Active Mechanics in Shops, Professional Men, and the Unemployed. This last class represents a greater age than any other.

TABLE XXIX.—Exhibiting, by Classified Occupations, the Number and the Aggregate and Average Ages of All Decedents in 1877, of All whose Occupations and Ages were returned, and of All whose Occupations were not Specified, of those Aged 20 Years and Over, One-half of a Year added to Age of each Person in place of Months and Days excluded.

Class.	OCCUPATIONS,—1877.	Number	AGE IN YEARS AND 100ths.	
		Persons.	Aggregate.	Average
	ALL AGED 20 YEARS AND OVER	6,876	828,614.50	51.54
	ALL SPECIFIED OCCUPATIONS,—AGED 20 AND OVER	5,537	286,302.50	51.71
	OCCUPATION UNSPECIFIED,—AGED 20 AND OVER	839	42,312.00	50.43
I.	CULTIVATORS OF THE EARTH	1,431	84, 168.50	58.85
II.	ACTIVE MECHANICS ABROAD	168	7,784.50	46.0
III.	ACTIVE MECHANICS IN SHOPS	178	9,556.50	53.69
IV.	INACTIVE MECHANICS IN SHOPS	95	4,746.00	49.96
v.	LABORERS,—NO SPECIAL TRADE	374	16,690.50	44.63
VL.	AGENTS, LABORERS ABROAD, ETC	94	3,961.50	42,14
VII.	SEAFARING MEN	80	1,265.50	42,18
VIII.	Soldiers	3	152.50	50.85
IX.	Business Men	189	9,187.00	48.84
X.	PROFESSIONAL MEN	85	4,580.50	58.89
XI.	Unemployed	104	6,271.00	60.80
XII.	FEMALES	2,786	188,088.50	49.55
I.	CULTIVATORS OF THE EARTH	1,481	84,168.50	58.89
	Farmers	1,410	83,044.00	58,90
	Farmers' Sons	4	100,00	25.00
	Farm Laborers	9	516.00	57.83
	Florists	2	95.00	47.50
	Gardeners	5	855.00	71.00
	Planters	1	58.50	88.50
II.	ACTIVE MECHANICS ABROAD	168	7,784.50	46.04
	Carpenters	108	5,694.90	55.28
	Carpenters' Sons		20.50	20.60
	Carpenters and Joiners	2	65,00	84.00
	Joiners	2	79.00	29,50
į	Masons	35	776.00	22,17
	Painters	23	967.00	43.00
	Ship-carpenters	8	340.00	46.67
III.	ACTIVE MECHANICS IN SHOPS	178	9,590.00	: ,
ļ	Axe-helve Makers	1	W.W.	•

# TABLE XXIX.—Continued.—Occupations of Decedents in 1877.

CLASS.	OCCUPATIONS,—1877.	Number	Age in Years and 100ths.		
		Persons.	Aggregate.	Average.	
III.	ACTIVE MECHANICS IN SHOPS-(Continued).				
	Bakers	2	156,00	78.00	
	Basket-makers	1	64.50	64.50	
	Blacksmiths	25	1,329.00	53.16	
	Boiler-makers	2	79.00	39.50	
	Brewers	6	253,00	42.17	
	Brick-makers	1	82.50	82,50	
	Cabinet-makers	7	465,60	66.43	
	Clothes Cleaners	1	65.50	65.50	
	Cooks	1	49.50	49.50	
	Coopers	11	629.00	57.18	
	Dyers	1	76,50	76,50	
	Engineers	10	868.00	36,80	
	Fanning-mill Makers	1	49.50	49.50	
	Finishers	2	77.00	38,50	
	Firemen	. 2	59.00	29.50	
	Foundrymen	1	48.50	48,50	
	Gilders	1	23.50	23,50	
	Gunsmiths	4	263.00	65.75	
	Locksmiths	2	73,00	86.50	
	Machinists	6	272.00	45,33	
	Mechanics	22	1,168.00	53.09	
	Millers	15	1,005.00	67,00	
	Millwrights	6	362,00	60,33	
	Molders	5	198,00	39.60	
	Planers	1	59,50	59.50	
	Sawyers	5	205.00	41.00	
	Spinners	1	24.50	24.50	
	Stone-cutters	6	277.00	46.17	
	Tanners	2	106.00	53.00	
	Tinners	2	90.00	45.00	
	Turners	2	68.00	\$4.00	
	Upholsterers	2	105.00	52.50	
	Wagon-makers.	111	640.00	52,50 58,18	
	Weavers.	7			
		1	519.00	74.14	
	Wheelwrights	3	189,00	63.00	

TABLE XXIX.—Continued.—Occupations of Decedents in 1877.

CLASS.	OCCUPATIONS,—1877.	Number		
	OCCUPATIONS,—IST.	of Persons.	Aggregate.	Average.
IV.	INACTIVE MECHANICS IN SHOPS	95	4,746.00	49.96
	Barbers	7	277,00	39.57
	Cigar-makers	7	222,00	31,71
	Harness-makers	6	214.00	35.67
	Jewelers	3	187.00	45,67
	Printers	6	198.00	82, 17
	Sail-makers	1	39,50	39.50
	Shoemakers	44	2,609.00	59,80
	Tailors	15	779.00	51.98
	Telegraph Operators	3	99.00	83,00
	Watch-makers	2	105.00	52.50
	Wig-makers	1	71.50	71,50
v.	Laborers-No Special Trades	374	16,690,50	44.63
	House keepers	5	262,00	52.40
	House-workers	1	25.50	25.50
	Janitors	1	31,50	31.50
	Laborers	331	14,874.00	44,94
	Log-scalers	2	78.00	38.00
	Miners	29	1,174.00	40.48
	Roofers	1	45.50	45,50
	Tar-workers.	1	72.50	72.50
	Waiters	1	51,50	51.50
	Well-diggers	1	22,50	22.50
	Warehouse-men	1	55,50	55,50
VI.	AGENTS, LABORERS ABROAD, ETC	94	3,961.50	42.14
	Agents	10	378.00	37,90
	Baggage-masters	1	34.50	34.50
	Brakemen	i	96.00	24,00
	Butchers	18	838.00	46.56
	Coachmen	1	26,50	26,50
	Conductors	1	35.50	85.50
	Draymen	2	88.00	44.00
	Livery-keepers	4	188.00	33.25
	Lumbermen	25	1,085.00	48.40
	Mine Captains.	2	78.00	89.00
	Musicians	2	78.00	36.80
	Packers	1	84.50	24.89
	ABUAULU	, ,	العبد	

# TABLE XXIX.—CONTINUED.—Occupations of Decedents in 1877.

CLASS.	OCCUPATIONS,—1877.	Number of Persons.	Ages in Years and 100ths.	
			Aggregate.	Average.
VI.	AGENTS, LABORERS ABROAD, ETC.—(Continued.)			
	Policemen	3	60.00	80.00
	R. R. Baggagemen	1	87.50	37.50
	R. R. Employes	2	96,00	48,00
	R. R. Firemen	1	24.50	24.50
	R. R. Men	2	89.00	44.5
	Sextons	1	45.50	45.50
	Sheriffs	1	42.50	42.50
	Switchmen	1	80.50	30,50
	Teamsters	4	180.00	45.00
VII.	SEAFARING MEN	80	1,265.50	42.18
	Fishermen	5	278.00	54.60
	Lake Captains.	2	101 <b>.0</b> 0	59.50
	Sailors	23	871.00	89.59
	Tug Men	1	20.50	20,50
VIII.	SOLDIERS	8	152.50	50,83
	Captains	1	58.50	58.50
	Ordnance Sergeants, U. S. A.	1	78.50	78.50
	"Signal Service"	1	25,50	25.50
IX.	Business Men	189	9,137.00	48,84
	Bankers	8	151.00	50,83
	Book-keepers	11	509,00	46.27
	Builders	2	69.00	34,50
	Capitalists	8	172,00	57.83
	Clerks	27	909,00	88.67
	Collectors	1	59.50	52.50
	Confectioners	2	84.00	42,00
	County Auditors	1	54.50	54,50
	Custom Officers	1	80,50	80.50
	Gas Superintendents	1	88.50	38,50
	Grain Buyers	2	102.00	51.00
	Hatters	1	27.50	27,50
	Horse Dealers	1	58,50	55,50
	Hotel Clerks	8.	117.00	39.00
	Hotel-keepers	15	728.00	48.53
	Justices of the Peace	2	125.00	62.50

# TABLE XXIX.—CONTINUED.—Occupations of Decedents in 1877.

CLASS.	OCCUPATIONS,—1877.	Number of	AGE IN YI	
CLASS	00001 #11003,-1011.	Persons.	Aggregate.	Average.
IX.	BUSINESS MEN—(Continued.)			
	Landlords	1	44.50	44.5
	Lumber Inspectors	2	80,00	40.0
	Manufacturers	9	459.00	51.0
	Merchants	67	8,717.00	55.4
	Milliners	1	60,50	60.0
	Notaries Public	1	66.50	66.0
	Photographers	8	107.00	85,6
	Postmasters	1	51.50	51.0
	Real Estate Dealers	1	64.50	64.5
	Restaurant-keepers	1	88,50	83,5
	Saloon-keepers	22	1,007.00	45.7
	Speculators	9	81.00	40.8
	Sugar Refiners	1	87.50	87.
i	Undertakers	1	57.50	57.
x.	PROPESSIONAL MEN	85	4,580.50	53.
	Actors	1	49.50	49.
	Artists	2	98.00	49.
	Dentists	5,	256.00	51.
	Draughtsmen	1	48,50	48.
	Editors	1	41.50	41.
	Lawyers	16	827.00	51.
	Ministers	23	1,467.00	66.
	Physicians	21	1,081.00	51.
	Prof. in Med. Dept., Ann Arbor	1	66.50	66.
	Students.	8	68.00	22.
	Surveyors	2	139.00	69.
	Teachers	9	371.00	41.
	Veterinary Surgeons	1	67.50	67.
XI.	Unemployed	104	6,271.00	60.
	Paupers	8	401.00	50.
	Unemployed	96	5,870.00	61.
	Unknown	297	15,546,00	52.
XII.	FEMALES	2,786	138,038,50	49.
	Artists	1	24.50	24.
	Basket-makers	1	25.50	25.

# TABLE XXIX.—Continued.—Occupations of Decedents in 1877.

CLASS.	OCCUPATIONS.—1877.	Number	AGE IN Y1 100T1		
<b></b>	0000FA110A3,—1617.	of Persons.	Aggregate.	Average	
XII.	FEMALES—(Continued.)				
	Box-factory Workers	1	23.50	23.5	
	Carpenters	1	47.50	47.5	
	Carpenters' Wives	4	150.00	37.5	
	Carriage-makers' Wives	1	93,50	93.5	
	Chair-makers	1	27.50	27.	
	Clerks	4	102.00	25.	
	Clerks' Wives	1	22.50	27.	
	Domestics	22	853.00	88.	
	Dress-makers	17	574.00	33.	
	Farmers	182	10,015.00	55.0	
	Farmers' Daughters	7	139.00	27.0	
	Farmers' Widows	2	162.00	81	
	Farmers' Wives	126	6,652,00	52,7	
	Fish Women	1	60,50	60.	
	Freight Agents' Wives	1	48,50	48,1	
	Gardeners	1	57.50	57.	
	Glovers	2	127.00	63.	
	Hair-dressers	2	89.00	44.	
	Harness-makers	1	27.50	27.	
	Hotel Waiters	1	20.50	20.	
	Housekeepers	679	34,301.00	50.	
	Housewives	691	33,550.00	48.	
	House-workers	95	4,837.00	45.	
	Laborers	17	977.00	57.	
	Laborers' Wives.	s	344.00	43.	
	Landladies	1	49.50	49.	
	Laundresses	2	76.00	38.	
	Lumbermen's Wives	1	39.50	89.	
	Matrons.	1	37.50	37.	
		1	49.50	49.	
	Mechanics	3	1		
	Merchants	1	222.00	74.	
	Merchants' Wives	3	151.00	50.	
	Midwives	1	75.50	75.	
	Milliners	9	288.00	32.	
	Millers	1	61.50	61.	
	Miners	1	35.50	35.	
	Miners' Wives	1	25,50	25.	

# CAUSES OF DEATH,—OCCUPATIONS.

### TABLE XXIX.—Continued.—Occupations of Decedents in 1877.

XII. FEMALES-	OCCUPATIONS,—1877.  -(Continued.)  8' Wives	of Persons.	Aggregate.	Average.
XII. FRMALES-	,			
	s' Wives		1	i
Minister		2	163.00	81.50
Nurses .		2	82.00	41.00
Painters	' Wives	1	85.50	\$6.50
Paupers		8	219.00	73 00
Physicia	ns' Wives	1	44,50	41.50
Prostitu	tes	1	21.50	21.50
Restaur	nt keepers	1	75,50	75.50
R. R. La	borers	1	27,50	27,56
Sailors		1	49.50	49.50
Sailors'	Vives	1	49.50	49.50
Seamstre	:8465	. 11	421.00	38.27
Servants	***************************************	11	887.60	35,18
Shoemak	8T\$	3	117.00	58,50
Spinners		1	80,50	80,50
Studente		2	42.00	21.00
Tailores	Nes	7	399.00	57.00
Teacher	J	359	1,111.00	28.49
Tinsmit		1	29.50	29.50
Unemplo	yed	250	13,406.00	53.63
Unknow	n	542	26,786,00	49.39
Washer-	women	4	149,00	87.25
•		2	138.00	69.00
Wives		5	218.00	42.60

<sup>39-1877.</sup> 



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